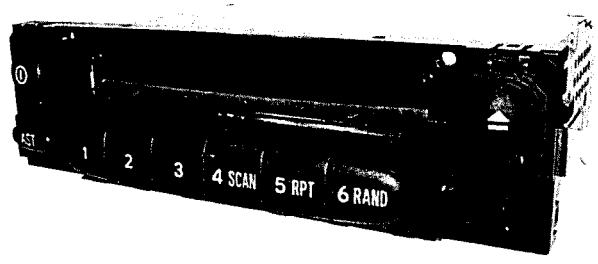
TOYOTA

PANA -09776

AUDIO COMPONENT SERVICE MANUAL

AM/FM RADIO with CD PLAYER

VEHICLE	DESTINATION	PRODUCED AFTER	TOYOTA PART NO.	ID CODE	MATSUSHITA MODEL NO.
YARIS	Europe	JAN., 1999	86120-52030	–	CQ-MS0820A



Specifications*

General

Power Supply	:	DC 12V Negative ground Test Voltage 13.2V
Current Consumption	:	Less than 2.5 A
Power Output	:	15 W× 4 (1kHz, 1%, 4Ω)

LW/MW Radio

Frequency Range	:	153 ~ 279 kHz (LW)
	:	522 ~ 1,611 kHz (MW)
Usable Sensitivity	:	32 ± 8 dB (μV) (S/N 20 dB)
Signal to Noise Ratio	:	More than 42 dB

FM Stereo Radio

Frequency Range	:	87.5 ~ 108 MHz
Usable Sensitivity	:	6 ± 6 dB (μV) (S/N 30 dB)
Stereo Separation	:	More than 30 dB
Signal to Noise Ratio	:	More than 30 dB (Stereo)

RDS Radio

RDS Sensitivity	:	22 $\pm^{4}_{10}$ dB (μV) (S/N 30 dB)

CD Player

Decoding	:	16 bit (Linear)
Channel Separation	:	65 ±15 dB (IHF-A)
Signal to Noise Ratio	:	More than 70 dB (IHF-A)

Dimensions**	:	178 (W) × 50 (H) ×165.7 (D) mm
Weight **	:	1.5 kg

* Specifications and the design are subject to possible modification without notice due to improvements.
** Dimensions and weight shown are approximate.
*** Above specifications comply with EIA standards.

Manufactured for TOYOTA
by Matsushita Communication Industrial Co., LTD.

PUB.NO. 80560
(Recycled Paper)

9776

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LASER PRODUCTS

Caution:
This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Do not take apart this unit or attempt to make any changes yourself
This unit is a very intricate device htat uses a laser pickup retrieve information from the surface of compact discs.
The laser is carefully shielded so that its rays remain inside the cabinet.
Therefore, never try to disassemble the player or alter any of its pats since you may be exposed laser rays and dangerous voltages.

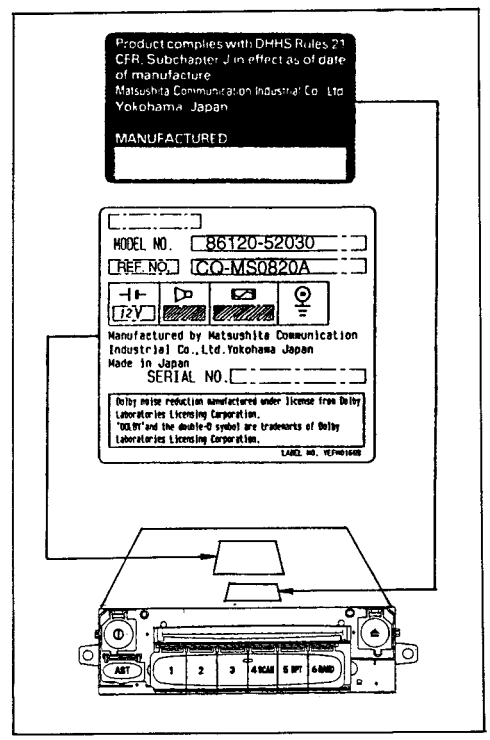
Laser Products:

Wave Length	780nm
Laser Power	No hazardous radiation is emitted with safety protection.

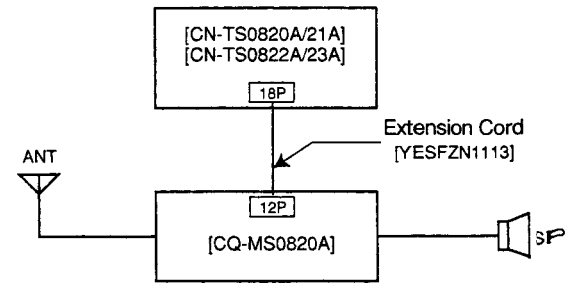
FEATURES

- PLL (Phase Locked Loop) Synthesized Tuning
- 24-station preset (6-AM, 18-FM)
- RDS Radio
- CD Changer Control Function.
- REPEAT, RANDOM, SCAN, FAST Function
- Emergency Eject Function
- Clock Function

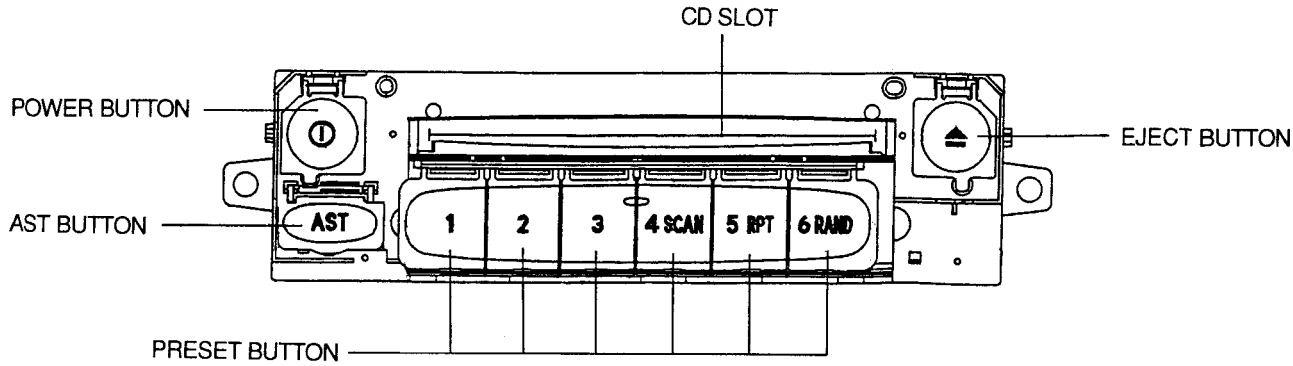
LABEL INDICATIONS AND THEIR LOCATIONS


Product complies with DHHS Rules 21 CFR, Subchapter J in effect as of date of manufacture
Matsushita Communication Industrial Co. Ltd
Yokohama Japan
MANUFACTURED
MODEL NO. 86120-52030
REF NO. CQ-MS0820A
12V
Manufactured by Matsushita Communication Industrial Co., Ltd. Yokohama Japan
Made in Japan
SERIAL NO.

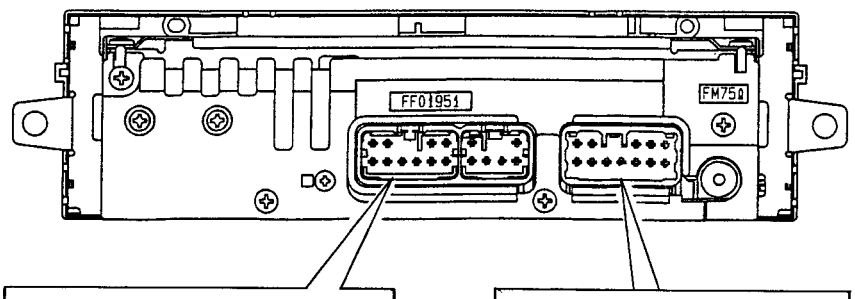
SYSTEM BLOCK DIAGRAM

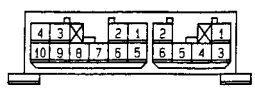


NAME AND FUNCTION OF EACH PARTS



REAR VIEW AND CONNECTOR



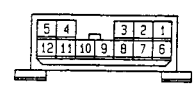


CN771 10Pin Connector

1.	Front Signal Output, Right⊕	(FR⊕)
2.	Front Signal Output, Left⊕	(FL⊕)
3.	Power Supply, ACC	(ACC)
4.	Power Supply, ⊕B	(⊕B)
5.	Front Signal Output, Right⊖	(FR⊖)
6.	Front Signal Output, Left⊖	(FL⊖)
7.	Ground	(GND)
8.	Power Supply, ANT AMP	(ANT⊕)
9.	Power Supply, AMP	(AMP⊕)
10.	Illumination⊕	(ILLUMI⊕)

CN771 6Pin Connector

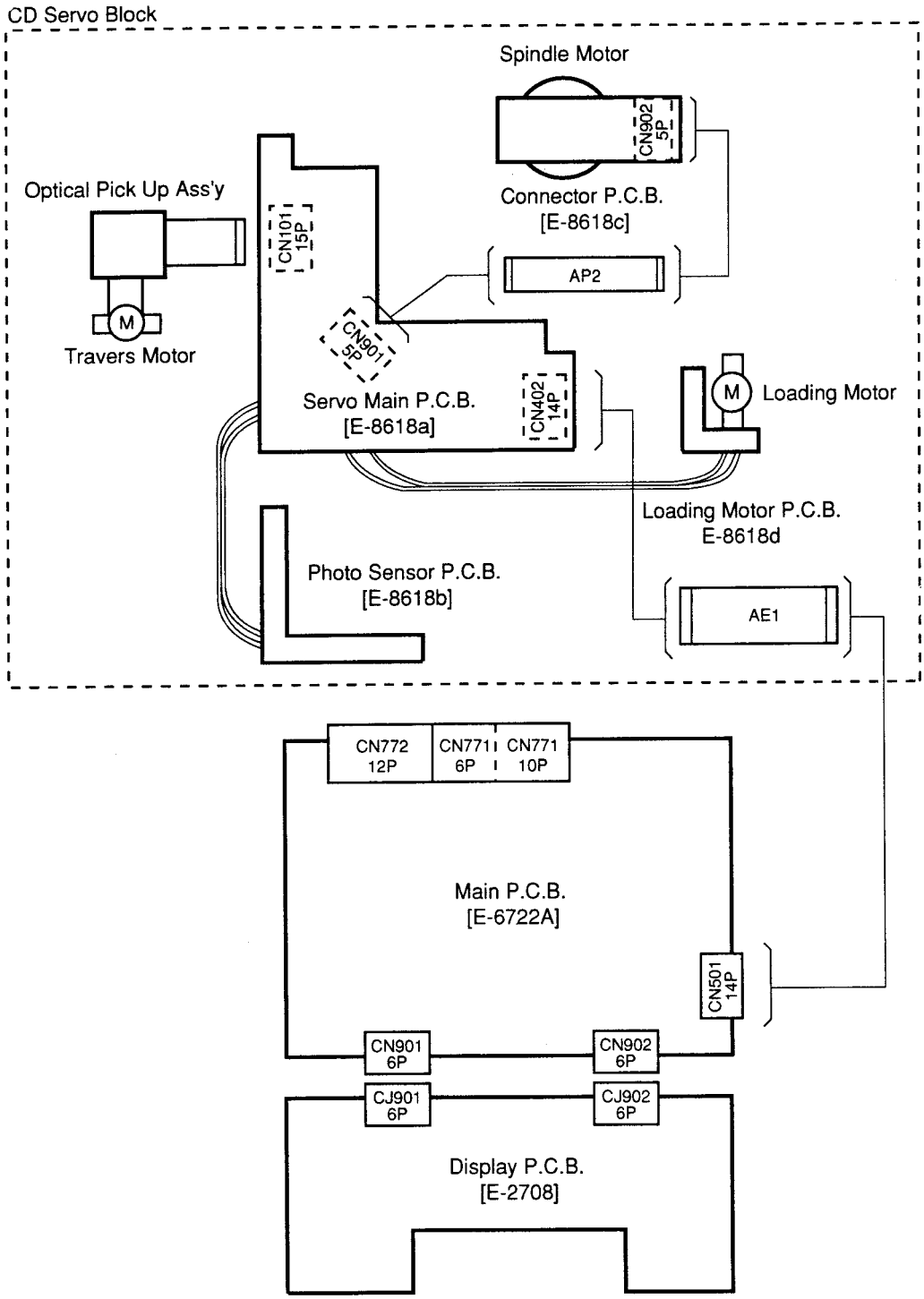
1.	Rear Signal Output, Right⊕	(RR⊕)
2.	Rear Signal Output, Left⊕	(RL⊕)
3.	Rear Signal Output, Right⊖	(RR⊖)
4.	NC	
5.	NC	
6.	Rear Signal Output, Left⊖	(RL⊖)



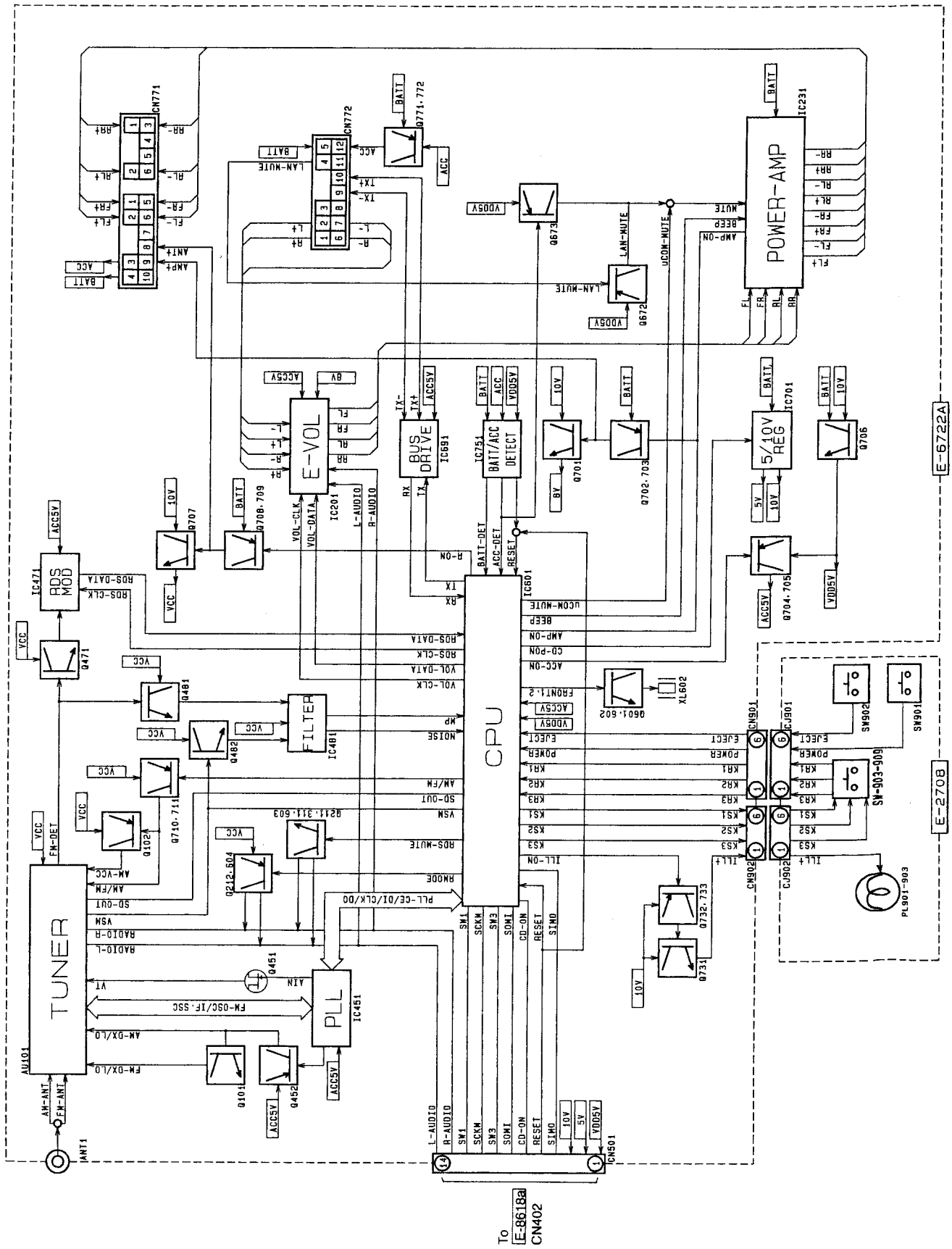
CN772 12Pin Connector

1.	Signal Input, Right⊕	(R⊕)
2.	Signal Input, Left⊕	(L⊕)
3.	Signal Ground	(S.GND)
4.	Mute Control	(MUTE)
5.	Power Supply, ⊕B	(⊕B)
6.	Signal Input, Right⊖	(R⊖)
7.	Signal Input, Left⊖	(L⊖)
8.	Ground	(GND)
9.	Bus Communication⊖	(TX⊖)
10.	Bus Communication⊕	(TX⊕)
11.	NC	
12.	Power Supply, ACC	(ACC)

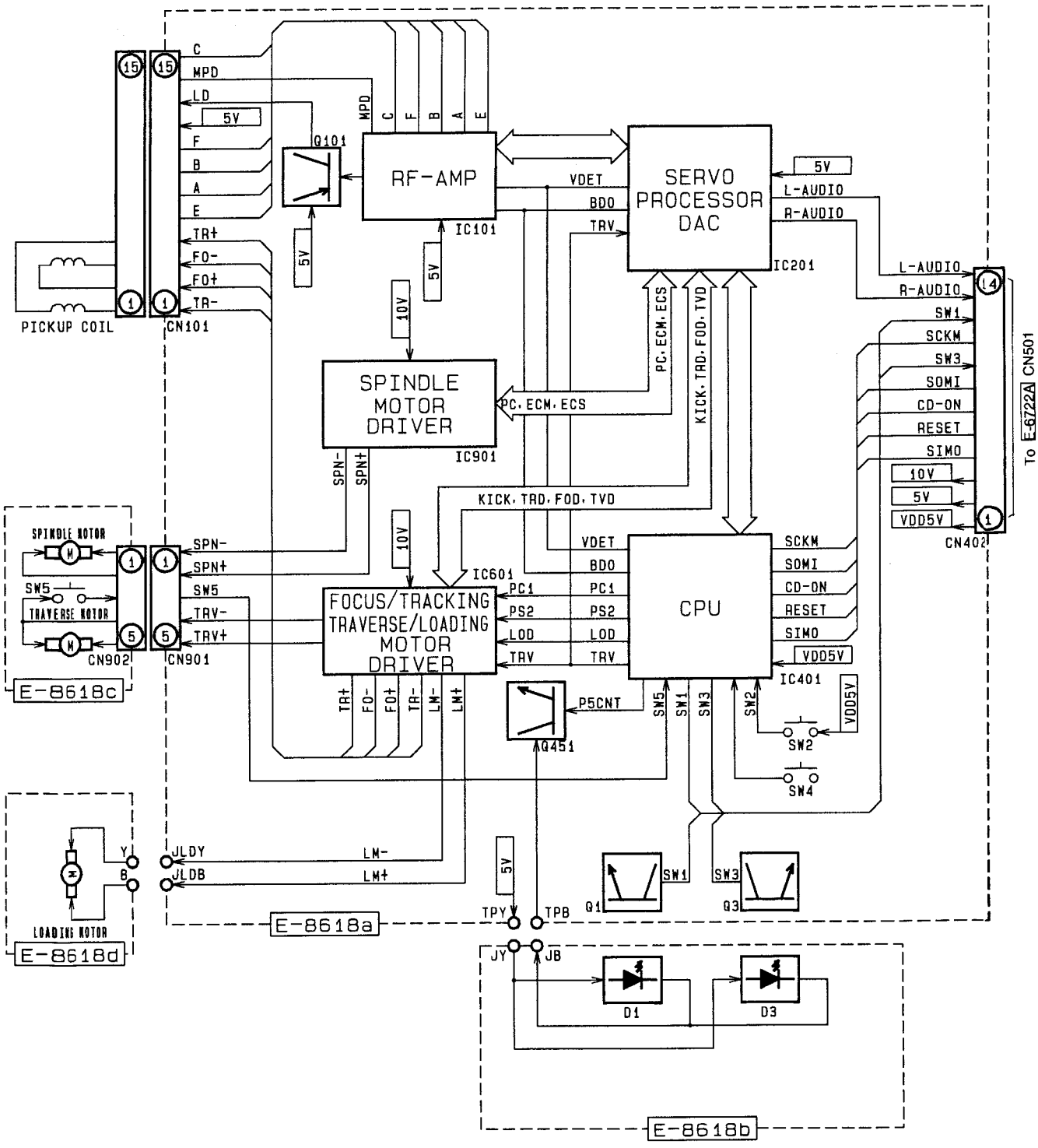
WIRING CONNECTION



BLOCK DIAGRAM (Main/Display Block)

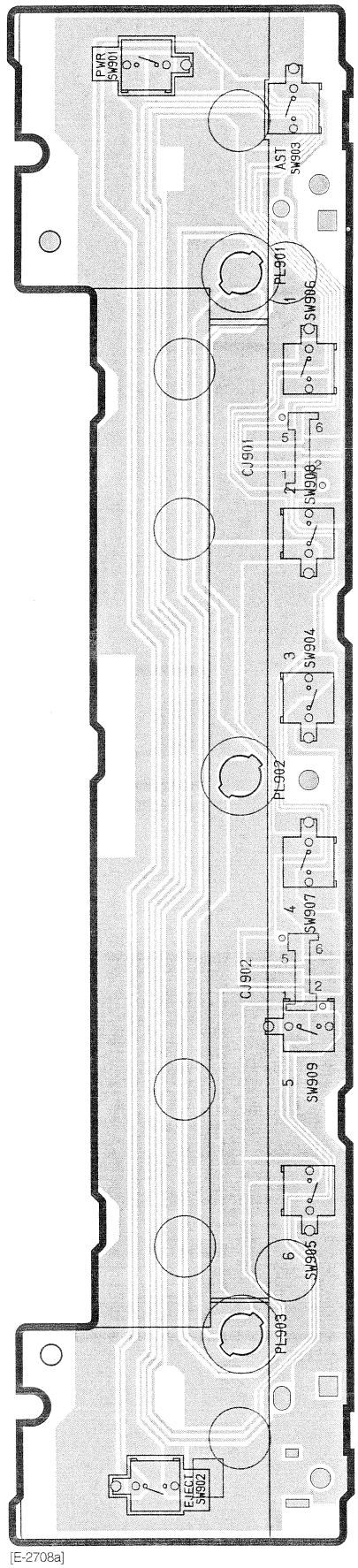


BLOCK DIAGRAM (CD Servo Block)



WIRING DIAGRAM (Display Block)

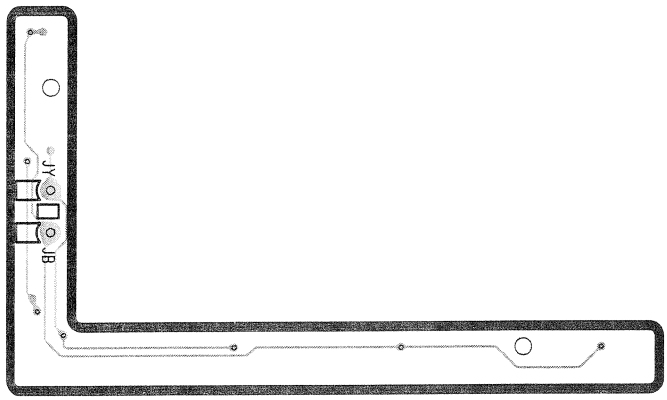
TOYOTA PART No. 86120-52030
MODEL CQ-MS0820A



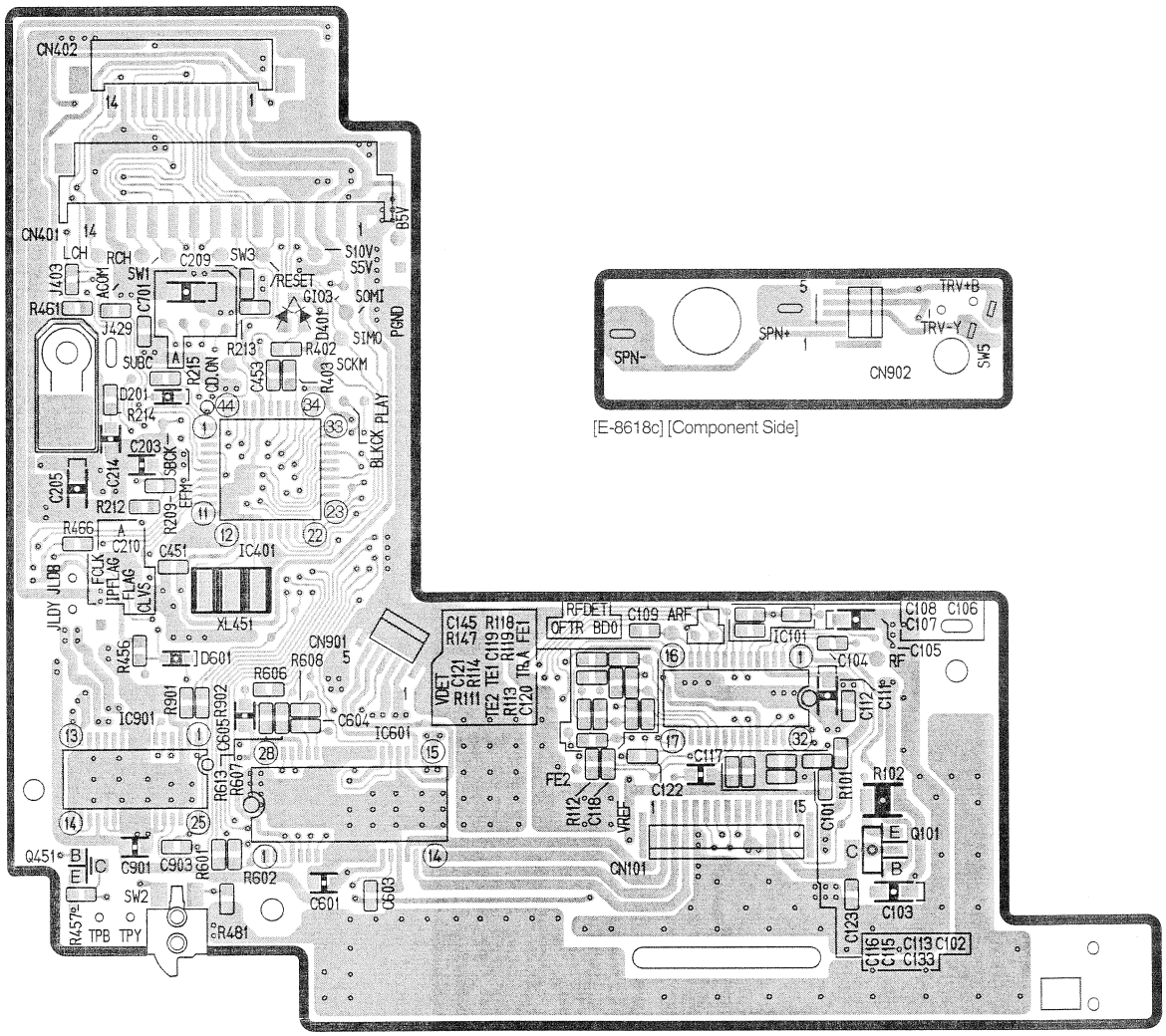
[E-2708a]

WIRING DIAGRAM (CD Servo Block-1)

TOYOTA PART No. 86120-52030
MODEL CQ-MS0820A

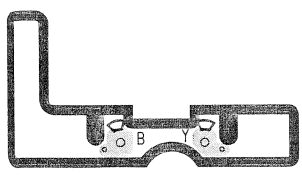


[E-8618b] [Component Side]



[E-8618a] [Component Side]

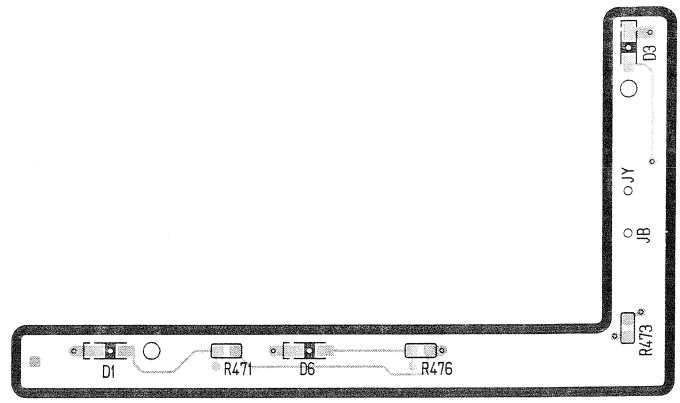
[E-8618c] [Component Side]



[E-8618d] [Component Side]

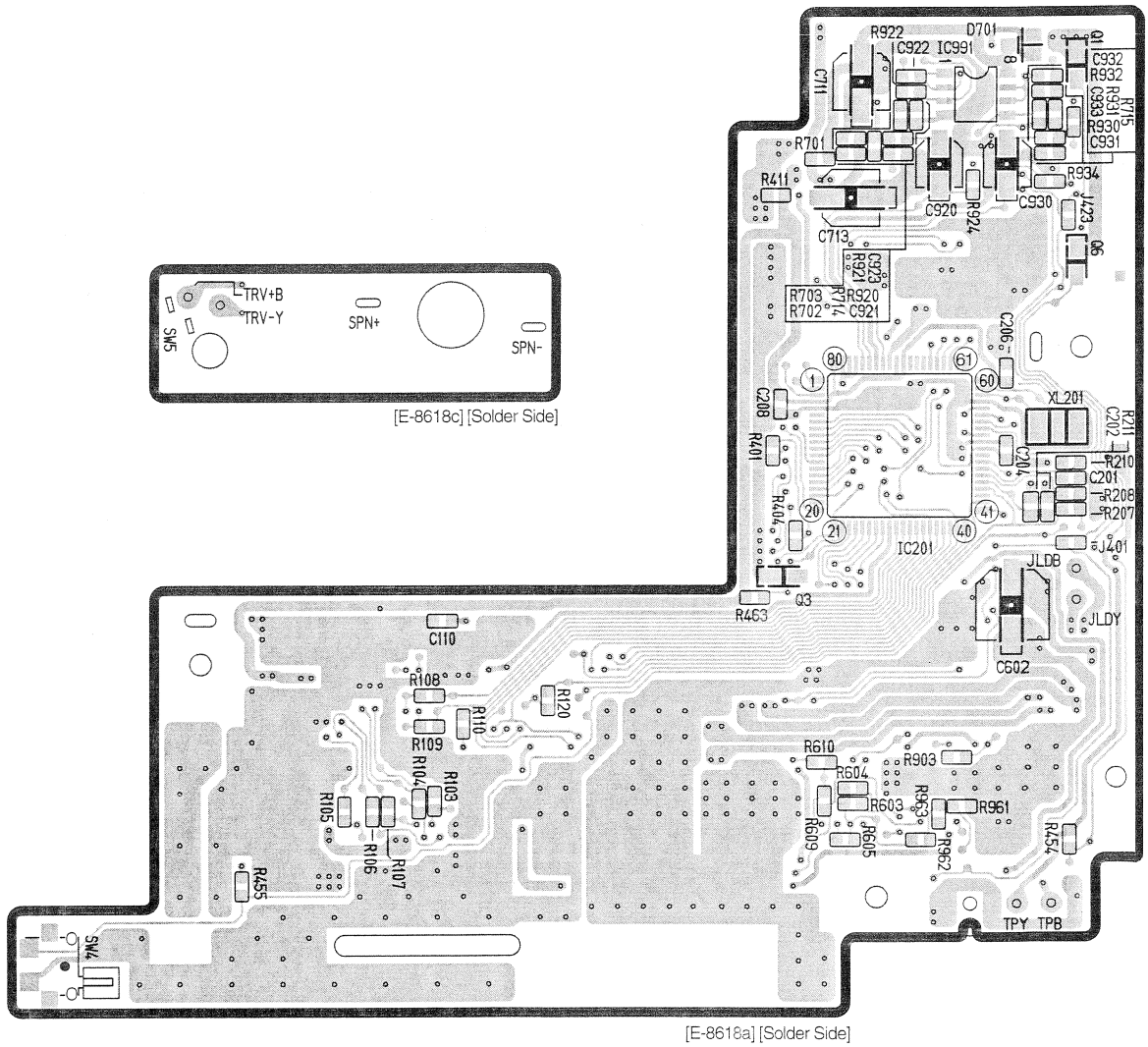
WIRING DIAGRAM (CD Servo Block-2)

TOYOTA PART No. 86120-52030
MODEL CQ-MS0820A

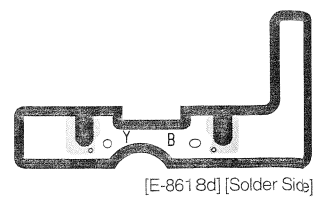


[E-8618b] [Solder Side]

[E-8618c] [Solder Side]



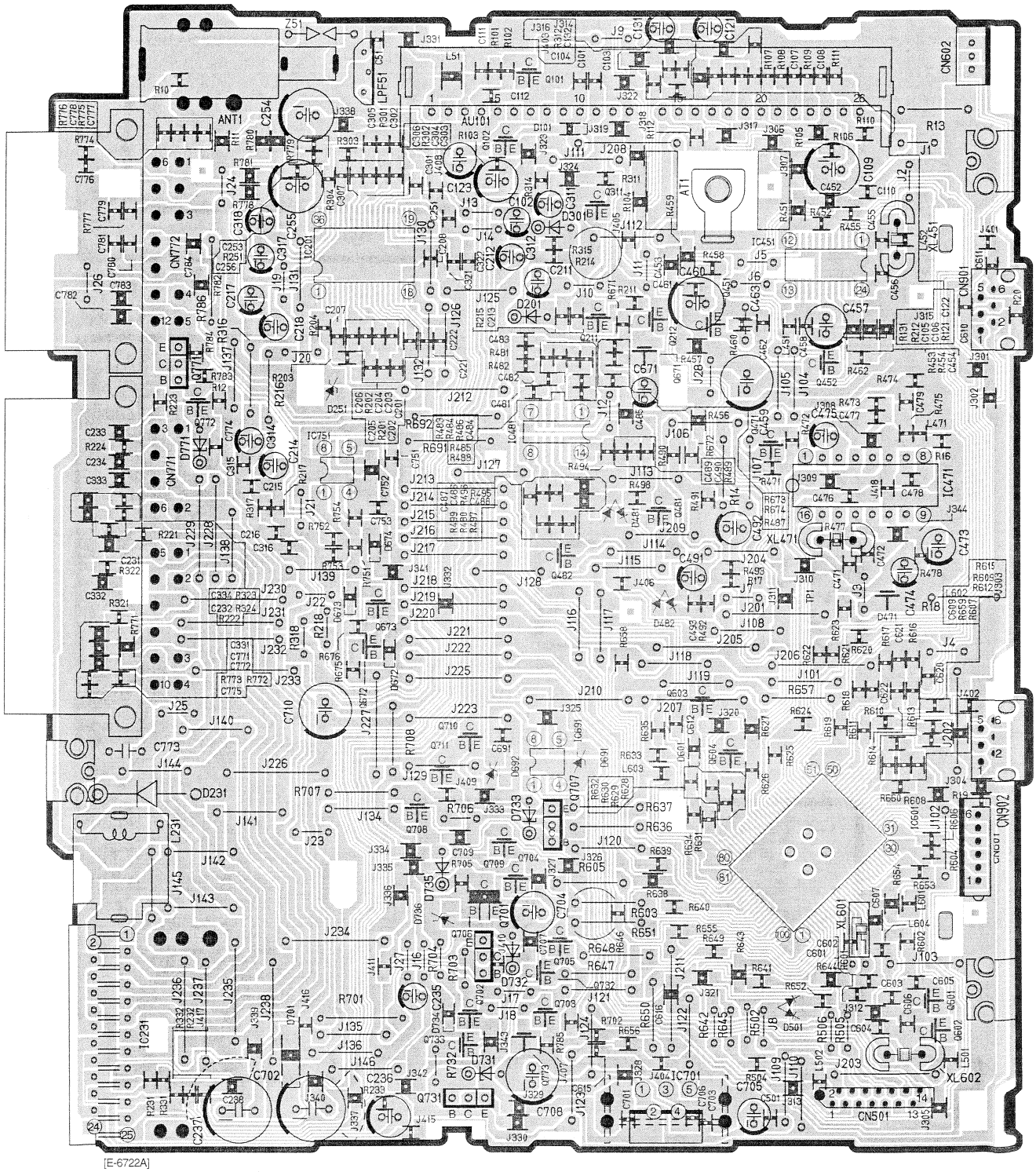
[E-8618a] [Solder Side]



[E-8618d] [Solder Side]

WIRING DIAGRAM (Main Block)

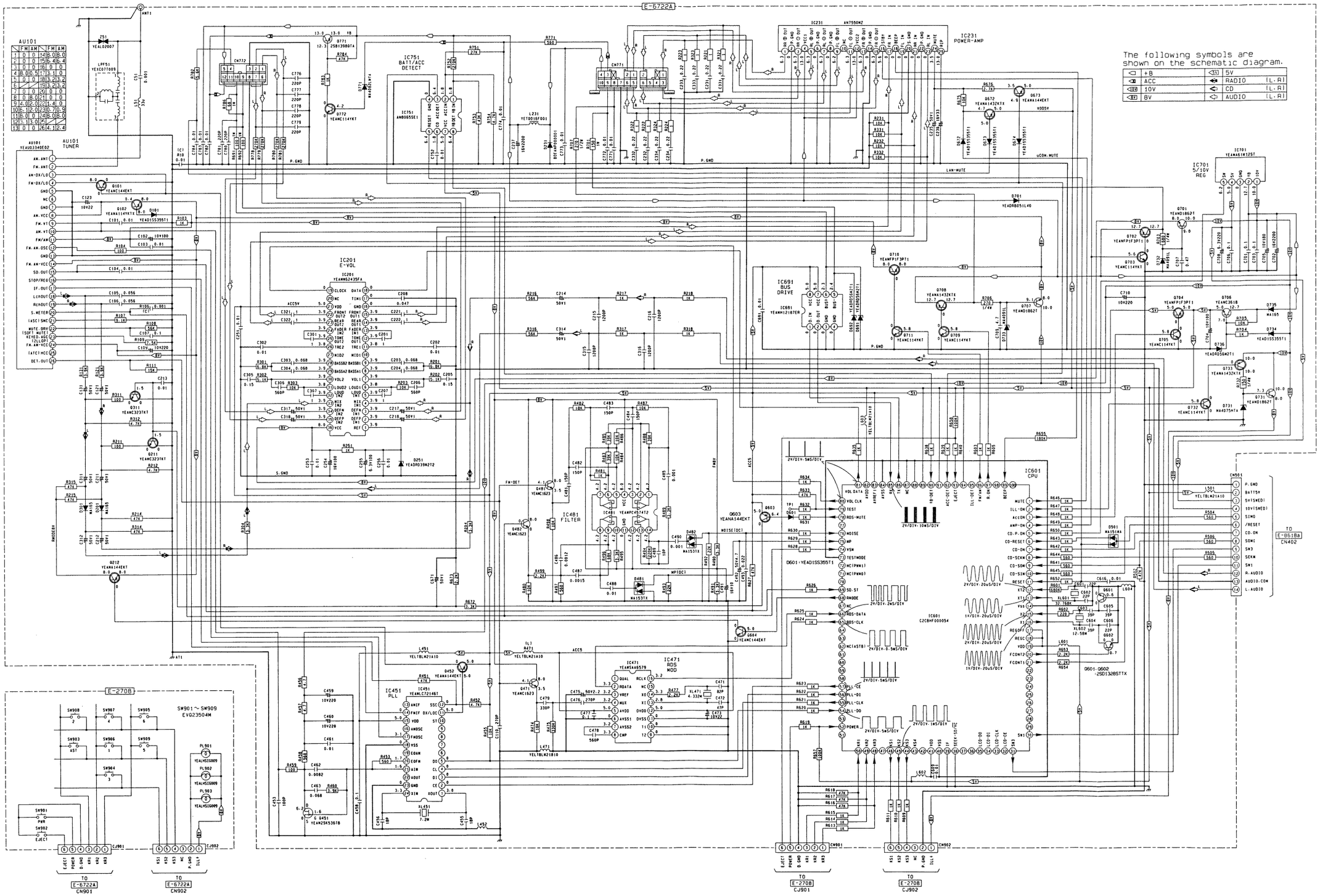
TOYOTA PART No. 86120-52030
MODEL CQ-MS0820A



[E-6722A]

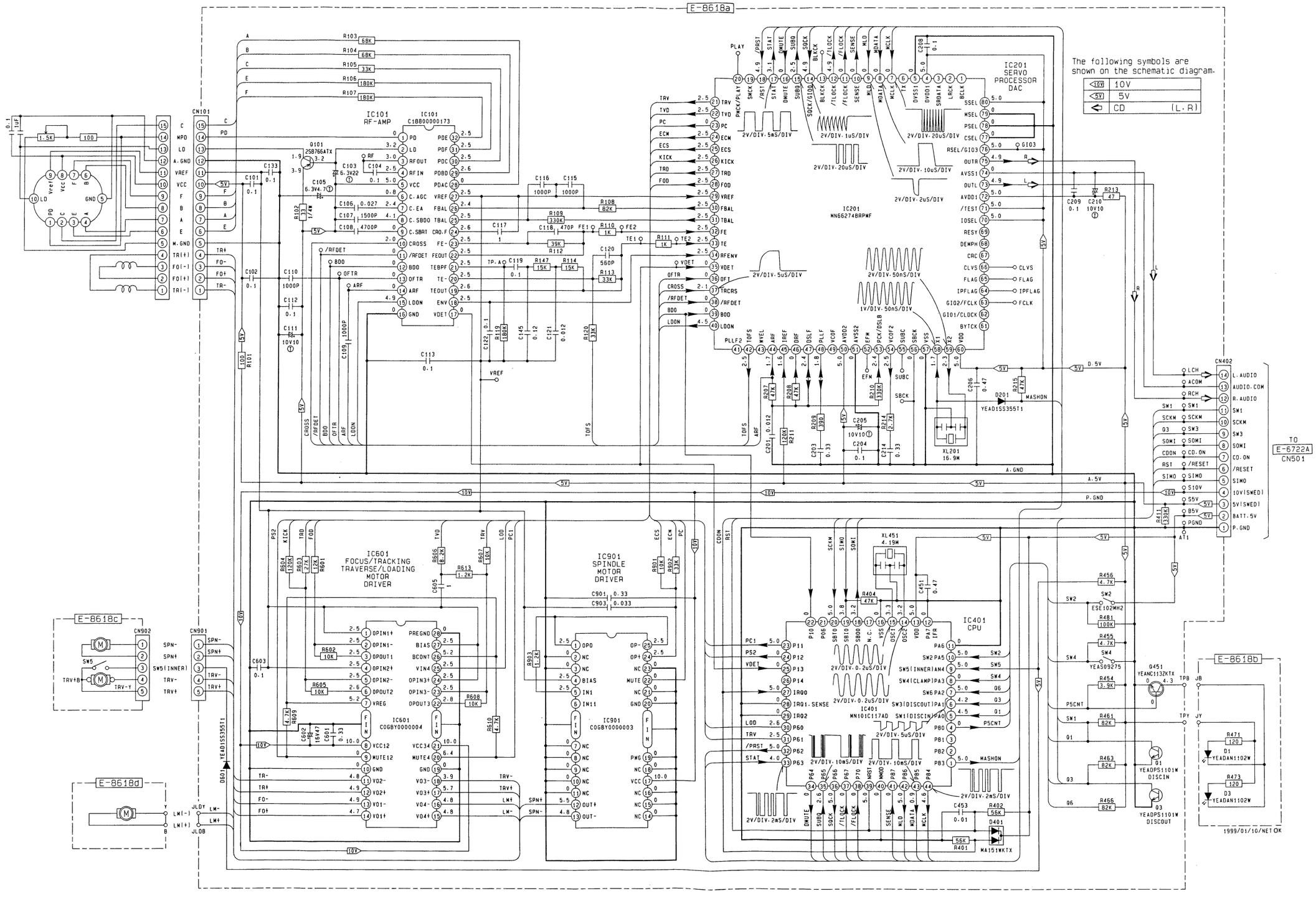
SCHEMATIC DIAGRAM (Main/Display Block)

TOYOTA PART No. 86120-52030
MODEL CQ-MS0820A



SCHEMATIC DIAGRAM (CD Servo Block)

TOYOTA PART No. 86120-52030
MODEL CQ-MS0820A



TERMINALS DESCRIPTION (Main Block)

■ IC601 C2CBHF000054

Pin No.	Port	Description	I/O	Vol. (V)		
				FM	AM	CD
1	MUTE	Audio Mute	O	0	0	0
2	ILL-ON	Illumi Power Control	O	6.5	6.5	6.5
3	Acc.ON	ACC Power Control	O	6.5	6.5	6.5
4	AMP-ON	AMP Power Control	O	6.5	6.5	6.5
5	CD.P.ON	CD Power Control	O	6.5	6.5	6.5
6	CD-RESET	CD Reset Signal	O	6.5	6.5	6.5
7	CD-ON	CD ON signal	O	0	0	6.5
8	CD-SCKM	CD CPU Serial Data Clock	O	6.5	6.5	6.5
9	CD-SOM	CD CPU Serial Data	I	0	0	3.5
10	CD-SIM	CD CPU Serial Data	O	0	0	3.6
11	RESET	Reset Signal	I	6.2	6.5	6.5
12	XT2	Crystal Oscillator	I	3.1	3.1	3.1
13	XT1	Crystal Oscillator	O	2.8	2.8	2.8
14	VSS	Ground	–	0	0	0
15	X2	Crystal Oscillator	I	3.2	3.2	3.2
16	X1	Crystal Oscillator	O	3.0	3.0	3.0
17	REGOFF	Connect to +5V	–	6.5	6.5	6.5
18	REGC	Connect to +5V	–	6.5	6.5	6.5
19	VDD	+5V Power Supply	–	6.5	6.5	6.5
20	FCONT2	Frequency Control Out2	O	6.5	6.5	6.5
21	FCONT1	Frequency Control Out1	O	0	0	0
22	(NC)	–	–	–	–	–
23	(NC)	–	–	–	–	–
24	(NC)	–	–	–	–	–
25	(NC)	–	–	–	–	–
26	(NC)	–	–	–	–	–
27	(NC)	–	–	–	–	–
28	(NC)	–	–	–	–	–
29	(NC)	–	–	–	–	–
30	SW1	SW1 (Disc In) Output	O	0	0	4.8
31	SW3	SW3 (Disc Out) Output	O	0	0	4.9
32	LCD-CE (NC)	–	–	–	–	–
33	LCD-CLK (NC)	–	–	–	–	–
34	LCD-DI (NC)	–	–	–	–	–
35	LCD-DO (NC)	–	–	–	–	–
36	(NC)	–	–	–	–	–
37	(NC)	–	–	–	–	–
38	SEEK-SD/VC	Connect to Ground	–	0	0	0
39	IF	Connect to Ground	–	0	0	0
40	VSS	Ground	–	0	0	0
41	VDD	+5V Power Supply	–	6.5	6.5	6.5
42	(NC)	–	–	–	–	–
43	KS4 (NC)	–	–	–	–	–
44	KS3	Key Scan Output 3	O	2.1	2.1	2.1
45	KS2	Key Scan Output 2	O	2.2	2.2	2.2
46	KS1	Key Scan Output 1	O	2.2	2.2	2.2
47	(NC)	–	–	–	–	–
48	KR3	Key Return Output 3	I	0	0	0
49	KR2	Key Return Output 4	I	0	0	0
50	KR1	Key Return Output 5	I	0	0	0

Pin No.	Port	Description	I/O	Vol. (V)		
				FM	AM	CD
51	(NC)	–	–	–	–	–
52	POWER	Power Switch Signal	I	6.5	6.5	6.5
53	(NC)	–	–	–	–	–
54	PLL-DO	PLL Data Input	I	2.5	0	0
55	PLL-CLK	PLL Clock Output	O	0	0	0
56	PLL-DI	PLL Data Output	O	0	0	0
57	PLL-CE	PLL Chip Enable Output	O	0	0	0
58	(NC)	–	–	–	–	–
59	(NC)	–	–	–	–	–
60	(NC)	–	–	–	–	–
61	(NC)	–	–	–	–	–
62	NC(ASTB)	–	–	–	–	–
63	(NC)	–	–	–	–	–
64	(NC)	–	–	–	–	–
65	RDS-CLK	RDS Clock Output	O	3.2	3.2	3.2
66	RDS-DATA	RDS Data Input	I	3.5	3.2	3.2
67	(NC)	–	–	–	–	–
68	RMODE	Radio Mode Signal Output	O	6.5	6.5	0
69	SD.ST	Diversity Field Strength Input	I	6.5	6.5	0.7
70	(NC)	–	–	–	–	–
71	(PWM0)NC	–	–	–	–	–
72	(PWM1)NC	–	–	–	–	–
73	TESTMODE	Connect to Ground	–	0	0	0
74	VSM	Radio Signal Strength	I	0	0	0
75	MP	MP Signal	I	0	0	0
76	NOISE	Noise Detect	I	0.6	0	0
77	(NC)	–	–	–	–	–
78	RDS-MUTE	Radio Mute Output (for RDS)	O	0	6.5	0
79	TEST	Test Signal	I	6.5	6.5	6.5
80	VOL CLK	Volume Control Clock	O	0	0	0
81	VOL DATA	Volume Control Data	O	0	0	0
82	AVDD	Analog Power Supply	–	6.5	6.5	6.5
83	AVREF1	Analog Voltage Reference1	–	6.5	6.5	6.5
84	AVSS	Ground	–	0	0	0
85	RX	AVC-LAN Data Input	I	0	0	0
86	TX	AVC-LAN Data Output	O	0	0	0
87	(NC)	Connect to Ground	–	0	0	0
88	INP0(NC)	Connect to Ground	–	0	0	0
89	INP1(NC)	Connect to +5V	–	6.5	6.5	6.5
90	+B-DET	+B Detect	I	6.5	6.5	6.5
91	INP3(NC)	Connect to +5V	–	6.5	6.5	6.5
92	ACC-DET	ACC Detect	I	6.5	6.5	6.5
93	EJECT	CD Eject Switch	I	6.5	6.2	6.5
94	(NC)	Connect to +5V	–	6.5	6.5	6.5
95	ILL-DET (NC)	–	–	–	–	–
96	FM/AM	AM/FM Select Output	O	6.5	0	0
97	R.ON	Radio ON Signal	O	6.5	6.5	0
98	(NC)	–	–	–	–	–
99	BEEP	Beep Sound Input	I	0	0.3	0.7
100	(NC)	–	–	–	–	–

TERMINALS DESCRIPTION (CD Servo Block)

■ IC201 MN662748RPMF

Pin No.	Port	Description	I/O	Vol. (V)
1	BCLK(NC)	–	–	–
2	LRCK(NC)	–	–	–
3	SRDATA(NC)	–	–	–
4	DVDD1	+5V Power Supply for Digital	I	5.0
5	DVSS1	Ground for Digital	I	0
6	TX(NC)	–	–	–
7	MCLK	Command Clock	I	0
8	MDATA	Command Data	I	0
9	MLD	Command Load	I	0
10	SENSE	SENSE Signal	O	0
11	/FLOCK	Focus Servo	O	0
12	/TLOCK	Tracking Servo	O	4.9
13	BLKCK(NC)	–	–	–
14	SQCK/GIOO	EX-clock for Subcode Q	I	4.9
15	SUBQ	Subcode Q-cord	O	2.5
16	DMUTE	DSP Muting	I	0
17	STAT	Status Signal	O	3.1
18	/RST	Reset Input	I	4.9
19	SMCK(NC)	–	–	–
20	PMCK/PLAY (NC)	–	–	–
21	TRV	Traverse Motor Control	O	2.5
22	TVD	Traverse Motor Drive	O	2.5
23	PC	Spindle Motor Control	O	0
24	ECM	Spindle Motor Drive	O	2.5
25	ECS	Spindle Motor Drive	O	2.5
26	KICK	Kick Pulse	O	2.5
27	TRD	Tracking Drive	O	2.5
28	FOD	Focus Drive	O	2.5
29	VREF	Reference Voltage	I	2.5
30	FBAL	Focus Balance	O	2.5
31	TBAL	Tracking Balance	O	2.5
32	FE	Focus Error	I	2.5
33	TE	Tracking Error	I	2.5
34	RFENV	RF Envelope	I	2.5
35	VDET	Vibration Detecting	I	0
36	OFT	OFF Track Signal	I	0
37	TRCRS	Track Cross	I	2.1
38	/RFDET	RF Detecting Signal	I	0
39	BDO	Drop-Out Signal	I	0
40	LDON	Laser ON Signal	O	4.5
41	PLLF2(NC)	–	–	–
42	TOFS	TE Offset	O	2.5
43	WVEL(NC)	–	–	–
44	ARF	RF Signal	I	1.7
45	IREF	Reference Current Input	I	1.6
46	DRF	DSL Bias	I	0
47	DSLF	Loop Filter for DSL	I/O	2.4
48	PLLF	Loop filter for PLL	I/O	1.8
49	VCOF (NC)	–	–	–
50	AVDD2	Power Supply for Analog	–	5.0
51	AVSS2	Ground for Analog	–	0
52	EFM(NC)	–	–	–
53	PCK/DSLB	DSL Bias	I	2.4
54	VCOF2	Tracking Offset	O	2.5
55	SUBC(NC)	–	–	–
56	SBCK	Connect to Ground	–	–
57	VSS	Ground	–	0
58	X1	Crystal oscillator	I	1.7
59	X2	Crystal oscillator	O	2.3
60	VDD	+5V Power Supply	–	5.0
61	BYTCK (NC)	–	–	–
62	GI01/CLDCK (NC)	–	–	–
63	GI02/FCLK (NC)	–	–	–
64	IP.FLAG(NC)	–	–	–
65	FLAG(NC)	–	–	–
66	CLVS(NC)	–	–	–
67	CRC(NC)	–	–	–
68	DEMPH(NC)	–	–	–
69	RESY(NC)	–	–	–
70	IOSEL	Connect to Ground	I	0
71	/TEST	Connect to Ground	I	0
72	AVDD1	+5V Power Supply for Analog	–	4.9
73	OUTL	Audio Output (Lch)	O	4.9
74	AVSS1	Ground for Analog	–	0
75	OUTR	Audio Output (Rch)	O	4.9
76	RSEL/GI03	Connect to Ground	I	0
77	CSEL	Connect to Ground	I	0
78	PSEL	Connect to Ground	I	0
79	MSEL	Connect to Ground	I	0
80	SSEL	Mode select for output	I	5.0

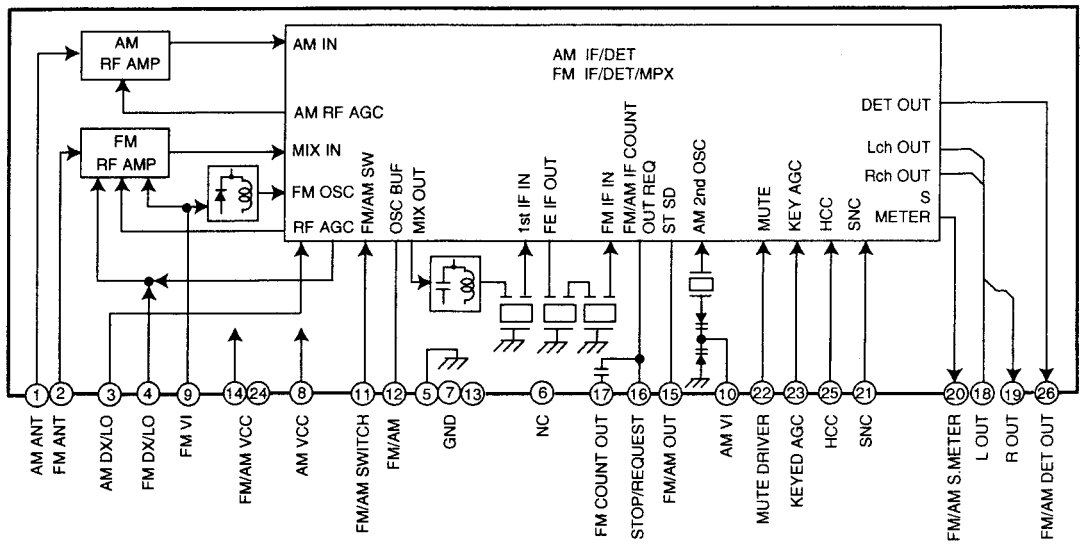
■ IC401 MN101C117AD

Pin No.	Port	Description	I/O	Vol. (V)
1	MASHON	Servo IC OSC Control	O	5.0
2	P82(NC)	–	–	–
3	P81(NC)	–	–	–
4	P5CNT	LED Power Control (Hi-Z:ON L:OFF)	O	0
5	Q1	Photo Sensor Signal (DISC IN)	I	4.5
6	Q3	Photo Sensor Signal (DISC OUT)	I	4.2
7	Q6	Photo Sensor Signal (Option)	I	5.0
8	SW4	Clamp SW Signal (L:Set)	I	0
9	SW5	Inner SW Signal (L:Inner SW ON)	I	5.0
10	SW2	Feeder Arm SW (H:NO DISC L:DISC IN)	I	5.0
11	PA6	Connect toGround	–	0
12	PA7/IFR	Test Mode Select (H:RFI measurement) Connect to Ground	I	0
13	VDD	+5V Power Supply	–	5.0
14	OSC2	4.19MHz Crystal oscillator	–	5.0
15	OSC1	4.19MHz Crystal oscillator	–	3.3
16	VSS	Ground	–	0
17	(NC)	–	–	–
18	SOMI	Data Output	O	3.2
19	SIMO	Data Input	I	3.8
20	SCKM	Serial Clock	I	5.0
21	AMUTE	Audio Signal Mute (H:Mute ON)	O	0
22	BDO	Dorp Out Signal Input	I	0
23	PC1	Loading Motor Drive Control(H:Mute)	O	5.0
24	PS2	Fo and TR Actueata DriveControl (H:Mute)	O	0
25	VDET	Vibration Detecting Signal Input	I	0
26	P14 (NC)	–	–	–
27	CDON	CD ON signal	I	5.0
28	IRQ1.SENSE	Connect to Ground	–	0
29	IRQ2	Connect to Ground	–	0
30	LOD	Loading Motor Control (H:OUT L:IN Hi-Z:Stop)	–	2.6
31	TRV	Traverse Motor Control (H:to Inside L:to Outside Hi-Z:Stop)	–	2.5
32	/PRST	Servo IC Reset Signal (L:Reset)	O	5.0
33	STAT	Status Signal	I	4.0
34	DMUTE	DSP Control (H:Mute)	O	0
35	SUBQ	SubCode Q Data Input	I	2.6
36	SQCK	SubCode Q Data Clock	O	5.0
37	/TLOCK	Tracking Servo (L:Lock)	I	0
38	/FLOCK	Focus Servo (L:Lock)	I	0
39	NRST	Reset Input	I	5.0
40	MMOD	Connect to Ground	–	0
41	SENSE	SENSE Signal	I	0
42	MLD	Command Lode	O	5.0
43	MDATA	Command Data	O	0.9
44	MCLK	Command Clock	O	4.6

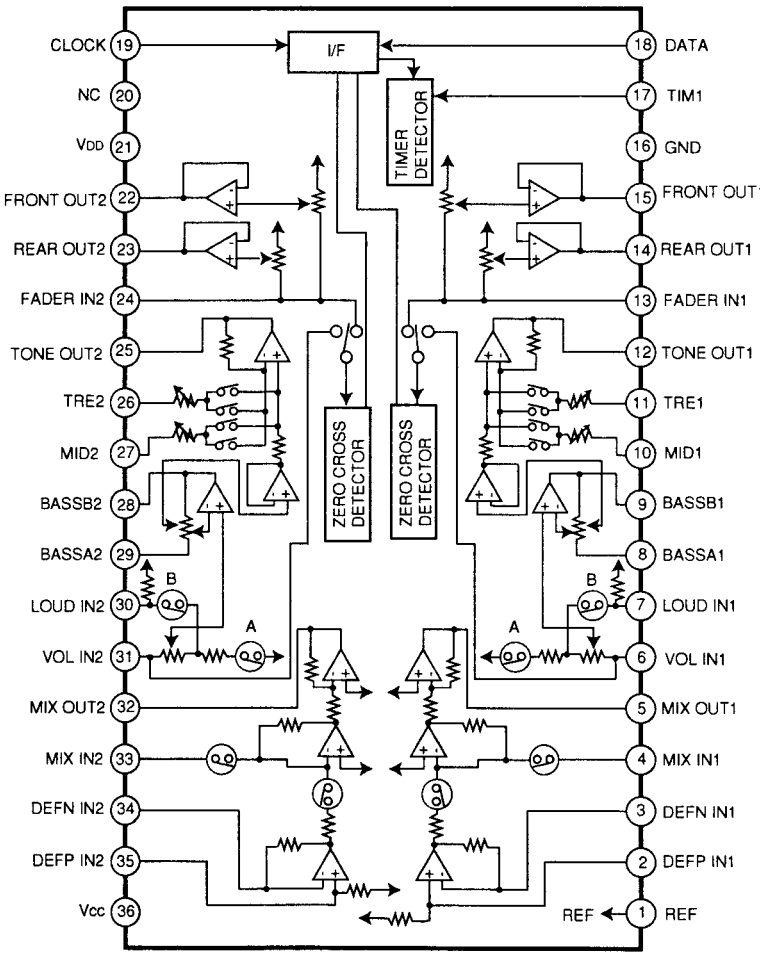
PACKAGE AND IC BLOCK DIAGRAM (1)

<Main Block>

■ AU101 YEAU03340E02



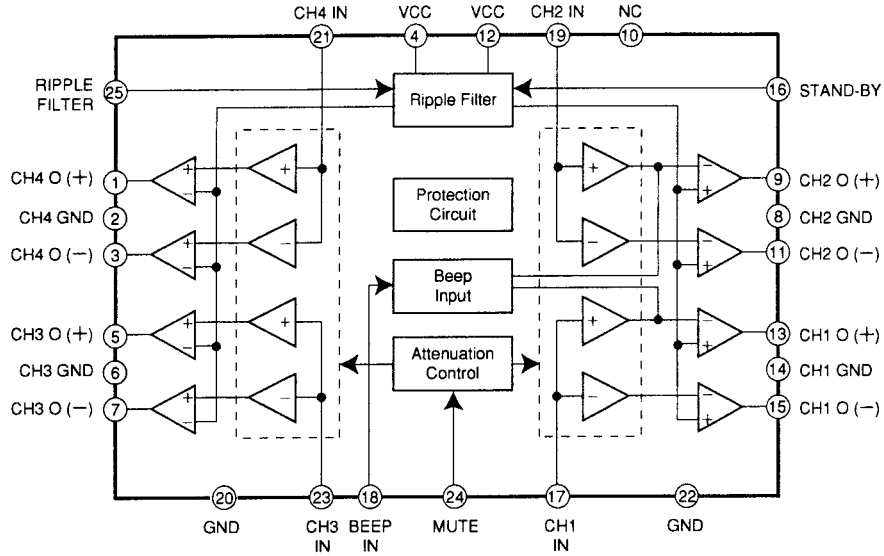
■ IC201 YEAMM62435FA



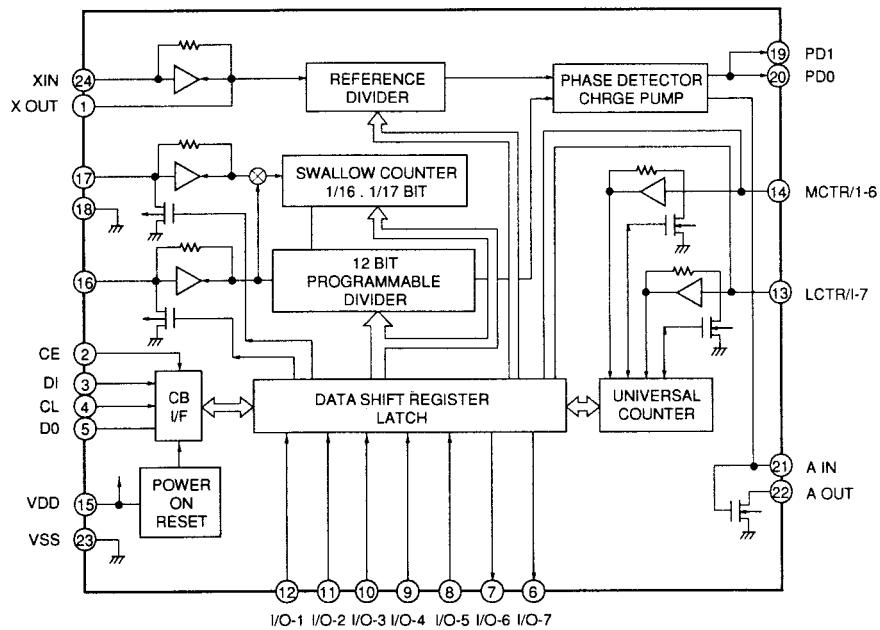
PACKAGE AND IC BLOCK DIAGRAM (2)

<Main Block>

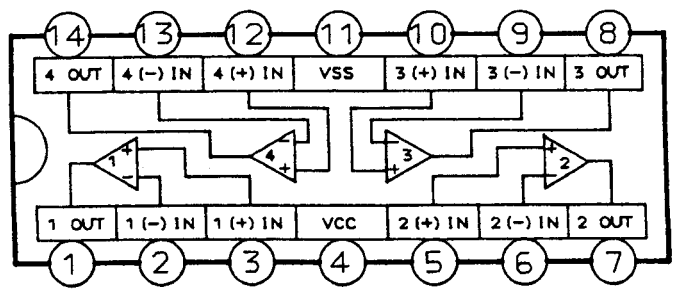
■ IC231 AN7550NZ



■ IC451 YEAMLC72146T



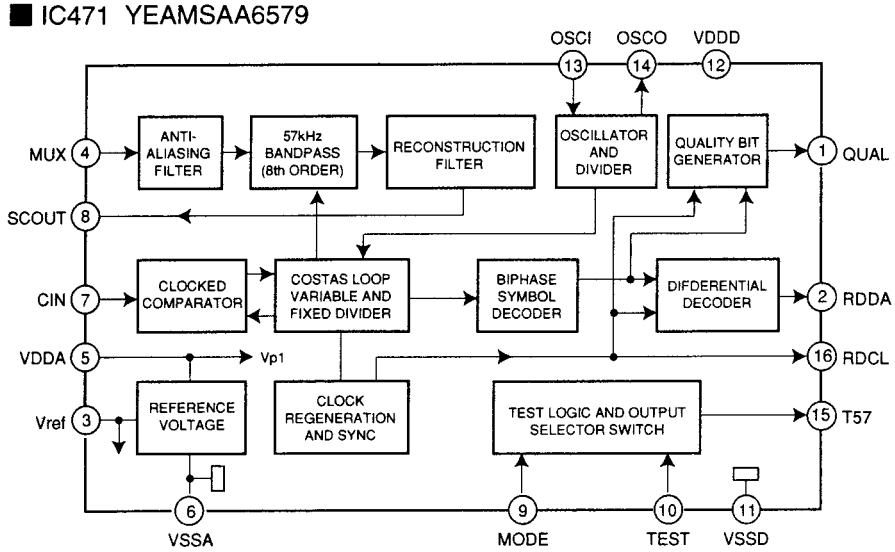
■ IC481 YEAMPC4574T2



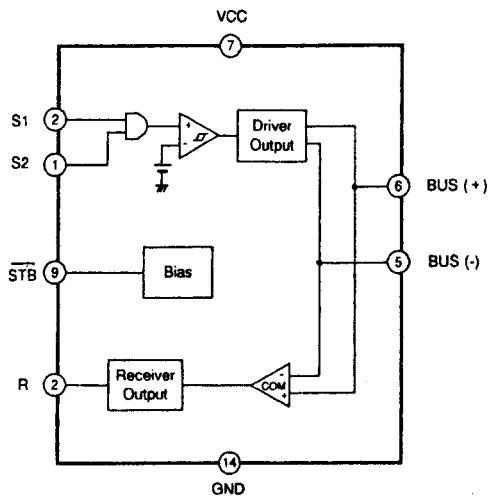
PACKAGE AND IC BLOCK DIAGRAM (3)

<Main Block>

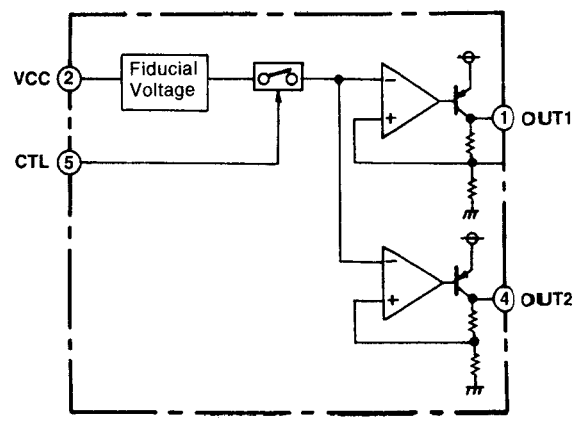
■ IC471 YEAMSAA6579



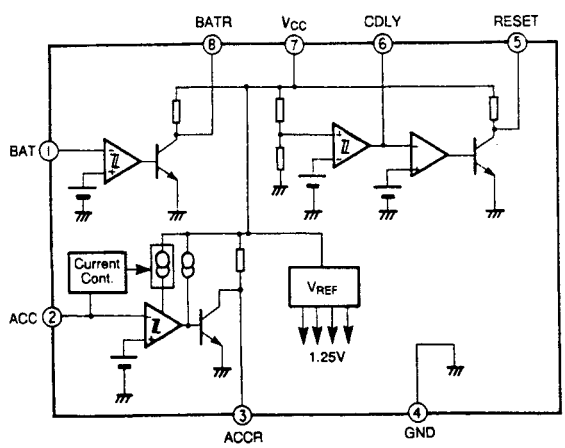
■ IC691 YEAMH12187ER



■ IC701 YEAMA61W12ST



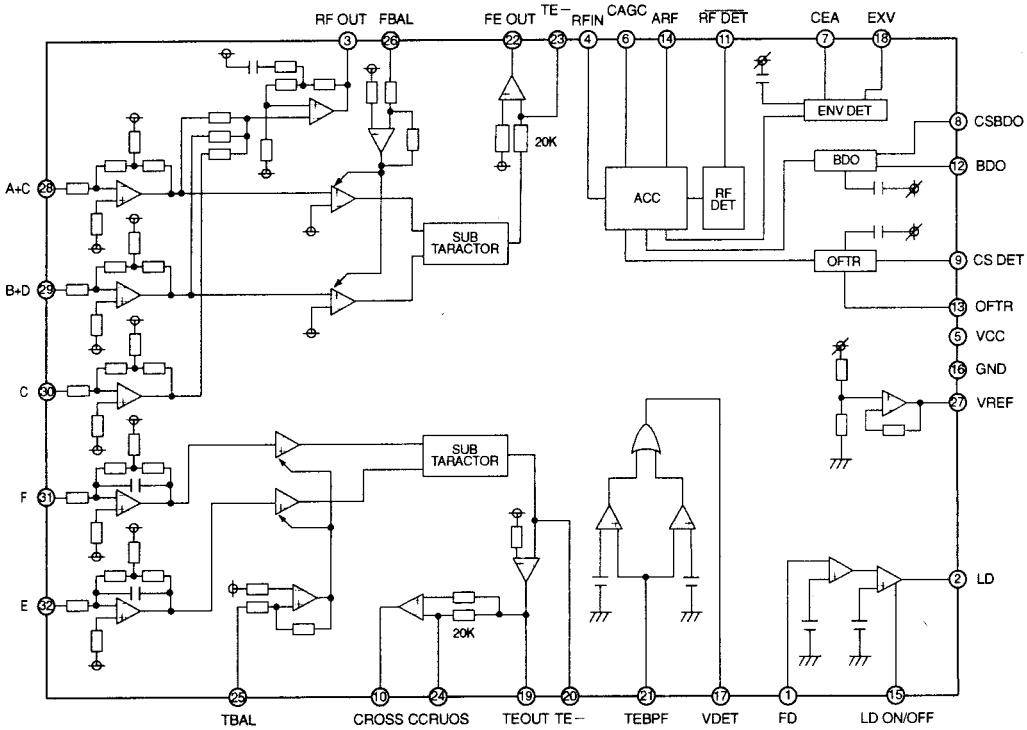
■ IC751 AN8065SE1



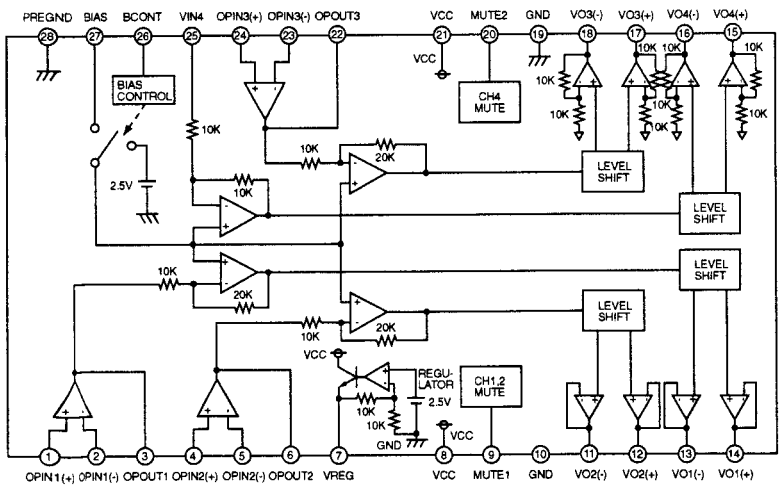
PACKAGE AND IC BLOCK DIAGRAM (4)

<CD Servo Block>

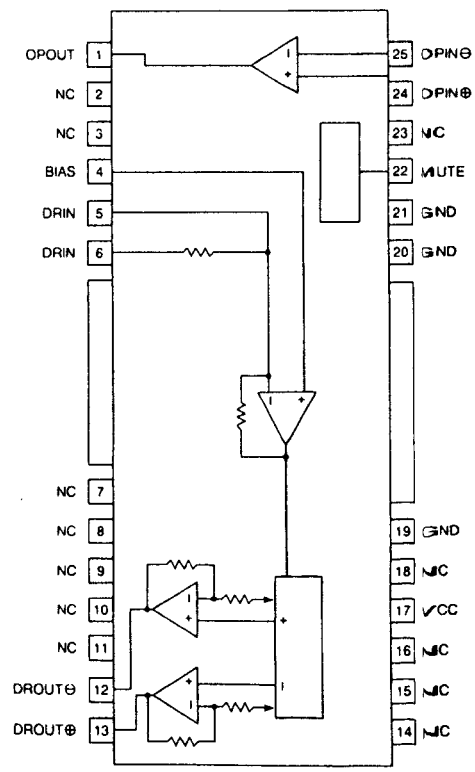
■ IC101 C1BB00000173



■ IC601 C0GBY0000004



■ IC901 C0GBY0000003



1 Replacement Parts List

Note :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
5. "MCC" marks in remarks column are indicated supply parts of Matsushita Communication Industrial Corp. of America (MCC).

1.1. IC's and Transistors

MAIN BLOCK [E-6722A]

Ref. No.	Part No.	Part Name & Description	Remarks
AU101	YEAU03340E02	Electronic Tuner	
IC201	YEAMM62435FA	IC	
IC231	AN7550NZ	IC	
IC451	YEAMLC72146T	IC	
IC471	YEAMSAA6579	IC	
IC481	YEAMPC4574T2	IC	
IC601	C2CBHF000054	IC	
IC691	YEAMH12187ER	IC	
IC701	YEAMA61W12ST	IC	
IC751	AN8065SE1	IC	
Q101	YEANC144EKT	Transistor	
Q102	YEANA114YKTX	Transistor	
Q211	YEANC323TKT	Transistor	
Q212	YEANA144EKT	Transistor	
Q311	YEANC323TKT	Transistor	
Q451	YEAN2SK536TB	Transistor	
Q452	YEANA144EKT	Transistor	
Q471	YEANC1623	Transistor	
Q481	YEANC1623	Transistor	
Q482	YEANC1623	Transistor	
Q601	2SD1328STTX	Transistor	
Q602	2SD1328STTX	Transistor	
Q603	YEANA144EKT	Transistor	
Q604	YEANC144EKT	Transistor	
Q672	YEANA143ZKTX	Transistor	
Q673	YEANA144EKT	Transistor	
Q701	YEAND1862T	Transistor	
Q702	YEANFP1F3PT1	Transistor	
Q703	YEANC114YKT	Transistor	
Q704	YEANFP1F3PT1	Transistor	
Q705	YEANC114YKT	Transistor	
Q706	YEANC3618	Transistor	
Q707	YEAND1862T	Transistor	
Q708	YEANA143ZKTX	Transistor	
Q709	YEANC114YKT	Transistor	
Q710	YEANFP1F3PT1	Transistor	
Q711	YEANC114YKT	Transistor	
Q731	YEAND1862T	Transistor	
Q732	YEANC114YKT	Transistor	
Q733	YEANA143ZKTX	Transistor	
Q771	2SB1398QTA	Transistor	
Q772	YEANC114YKT	Transistor	

Servo Block [E-8618]

Ref. No.	Part No.	Part Name & Description	Remarks
IC101	C1BB00000173	IC	
IC201	MN662748RPMF	IC	
IC401	MN101C117AD	IC	
IC601	C0GBY0000004	IC	
IC901	C0GBY0000003	IC	
Q101	2SB766ATX	Transistor	
Q451	YEANC113ZKTX	Transistor	

1.2. Diodes

MAIN BLOCK [E-6722A]

Ref. No.	Part No.	Part Name & Description	Remarks
D101	YEAD1SS355T1	Diode	
D201	MA165	Diode	
D231	B0EANP000001	Diode	
D251	YEADRD39M2T2	Diode	
D301	MA165	Diode	
D481	MA153TX	Diode	
D482	MA153TX	Diode	
D501	MA151WA	Diode	
D601	YEAD1SS355T1	Diode	
D672	YEAD1SS355T1	Diode	
D673	YEAD1SS355T1	Diode	
D674	YEAD1SS355T1	Diode	
D691	YEADRD56M2T1	Diode	
D692	YEADRD56M2T1	Diode	
D701	YEADRB051L40	Diode	
D731	MA4075HTA	Diode	
D732	MA4091L	Diode	
D733	MA4091L	Diode	
D734	YEAD1SS355T1	Diode	
D735	MA165	Diode	
D736	YEADRD56M2T1	Diode	
D771	MA4082LMTA	Diode	

SERVO BLOCK [E-8618]

Ref. No.	Part No.	Part Name & Description	Remarks
D1	YEADAN1102W	IC	
D3	YEADAN1102W	IC	
D201	YEAD1SS355T1	Diode	
D401	MA151WKTX	Diode	
D601	YEAD1SS355T1	Diode	
Q1	YEADPS1101W	LED	
Q3	YEADPS1101W	LED	

1.3. Capacitors

MAIN BLOCK [E-6722A]

Ref. No.	Part No.	Part Name & Description	Remarks
C51	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C101	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C102	ECEA1AKA101I	Electrolytic, 100µF 10WV	
C103	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C104	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C105	YECUS1C563KX	Ceramic, 0.056µF 16WV	
C106	YECUS1C563KX	Ceramic, 0.056µF 16WV	
C107	YECUS1C104KX	Ceramic, 0.1µF16WV	
C109	ECEA1AKA221	Electrolytic, 220µF10WV	
C110	YECUS1H271JM	Ceramic, 270pF 50WV	
C121	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C123	ECEA1AKA220I	Electrolytic, 22µF 10WV	
C131	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C201	YECUS1A105KX	Ceramic, 1µF 10WV	
C202	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C203	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C204	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C205	YECUS1C154KX	Ceramic, 0.15µF 16WV	
C206	YECUS1H561KX	Ceramic, 560pF 50WV	
C207	YECUS1A105KX	Ceramic, 1µF 10WV	
C208	YECUS1E473KX	Ceramic, 0.047µF 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C211	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C212	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C213	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C214	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C215	YECUS1H122KX	Ceramic, 1200pF 50WV	
C216	YECUS1H122KX	Ceramic, 1200pF 50WV	
C217	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C218	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C221	YECUS1A105KX	Ceramic, 1µF 10WV	
C222	YECUS1A105KX	Ceramic, 1µF 10WV	
C231	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C232	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C233	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C234	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C235	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C236	ECEA1CKA330I	Electrolytic, 33µF 16WV	
C237	ECA1CGE222L	Electrolytic, 2200µF 16WV	
C251	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C253	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C254	ECEA1CKA101	Electrolytic, 100µF16WV	
C255	ECEA0JKA101I	Electrolytic, 100µF6.3WV	
C256	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C301	YECUS1A105KX	Ceramic, 1µF 10WV	
C302	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C303	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C304	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C305	YECUS1C154KX	Ceramic, 0.15µF 16WV	
C306	YECUS1H561KX	Ceramic, 560pF 50WV	
C307	YECUS1A105KX	Ceramic, 1µF 10WV	
C311	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C312	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C314	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C315	YECUS1H122KX	Ceramic, 1200pF 50WV	
C316	YECUS1H122KX	Ceramic, 1200pF 50WV	
C317	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C318	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C321	YECUS1A105KX	Ceramic, 1µF 10WV	
C322	YECUS1A105KX	Ceramic, 1µF 10WV	
C331	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C332	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C333	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C334	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C453	YECUV1H101JM	Ceramic, 100pF 50WV	
C455	YECUS1H180JC	Ceramic, 18pF 50WV	
C456	YECUS1H180JC	Ceramic, 18pF 50WV	
C458	YECUS1C104KX	Ceramic, 0.1µF16WV	
C459	ECEA1AKA221	Electrolytic, 220µF10WV	
C460	ECEA1AKA221	Electrolytic, 220µF10WV	
C461	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C462	YECUS1H822KX	Ceramic, 0.0082µF 50WV	
C463	ECQV1H683B46	Plastic Film, 0.068µF 50WV	
C471	YECUS1H820JM	Ceramic, 82pF 50WV	
C472	YECUS1H470JC	Ceramic, 47pF 50WV	
C473	ECEA1AKA220I	Electrolytic, 22µF 10WV	
C475	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C476	YECUS1H271JM	Ceramic, 270pF 50WV	
C477	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C478	YECUS1H561KX	Ceramic, 560pF 50WV	
C479	YECUS1H331JM	Ceramic, 330pF 50WV	
C481	YECUS1H151JM	Ceramic, 150pF 50WV	
C482	YECUS1H151JM	Ceramic, 150pF 50WV	
C483	YECUS1H151JM	Ceramic, 150pF 50WV	
C484	YECUS1H151JM	Ceramic, 150pF 50WV	
C485	YECUV2A102KX	Ceramic, 0.001µF 100WV	
C486	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C487	YECUS1H152KX	Ceramic, 0.0015µF 50WV	
C488	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C489	YECUS1H100CC	Ceramic, 10pF 50WV	
C490	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C491	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C492	ECEA1HKA4R7I	Electrolytic, 4.7µF 50WV	
C493	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C601	YECUS1H220JC	Ceramic, 22pF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C602	YECUS1H220JC	Ceramic, 22pF 50WV	
C603	YECUS1H390JC	Ceramic, 39pF 50WV	
C604	YECUS1H390JC	Ceramic, 39pF 50WV	
C605	YECUS1H390JC	Ceramic, 39pF 50WV	
C606	YECUS1H220JC	Ceramic, 22pF 50WV	
C609	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C616	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C671	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C691	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C701	YECUS1C104KX	Ceramic,0.1µF 16WV	
C702	ECA1CGE222L	Electrolytic, 2200µF 16WV	
C703	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C704	ECEA1AKA101I	Electrolytic, 100µF 10WV	
C705	EEUFC1A181H	Electrolytic, 180µF 10WV	
C706	YECUS1C104KX	Ceramic, 0.1µF16WV	
C707	YECUV1C474ZF	Ceramic, 0.47µF 16WV	
C708	ECEA0JKA221I	Electrolytic, 220µF 6.3WV	
C709	YECUV1A475KX	Ceramic, 4.7µF 10WV	
C710	ECEA1AKS221	Electrolytic, 220µF 10WV	
C752	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C771	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C772	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C773	ECQV1H103B46	Plastic Film, 0.01µF 50WV	
C774	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C776	YECUS1H221JM	Ceramic, 220pF 50WV	
C777	YECUS1H221JM	Ceramic,220pF 50WV	
C778	YECUS1H221JM	Ceramic, 220pF 50WV	
C779	YECUS1H221JM	Ceramic, 220pF 50WV	
C780	YECUS1H221JM	Ceramic, 220pF 50WV	
C781	YECUS1H221JM	Ceramic, 220pF 50WV	
C782	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C783	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C784	YECUV2A103KX	Ceramic, 0.01µF 100WV	
R10	YECUS1H103KX	Ceramic, 0.01µF 50WV	
R106	YECUS1H102KX	Ceramic, 0.001µF 50WV	

SERVO BLOCK [E-8618],

Ref. No.	Part No.	Part Name & Description	Remarks
C101	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C102	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C103	YECSW0J226MA	Tantalum, 22µF 6.3WV	
C104	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C105	ECSH0JY475CR	Tantalum, 4.7µF6.3WV	
C106	YECUZ1E273KX	Ceramic, 0.027µF 25WV	
C107	YECUZ1H152KX	Ceramic, 1500pF 50WV	
C108	YECUZ1H472KX	Ceramic, 4700pF 50WV	
C109	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C110	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C111	YECSW1A106MA	Tantalum, 10µF 10WV	
C112	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C113	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C115	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C116	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C117	YECUS1A105KX	Ceramic, 1µF 10WV	
C118	YECUZ1H471KX	Ceramic, 470pF 50WV	
C119	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C120	YECUZ1H561KX	Ceramic, 560pF 50WV	
C121	YECUZ1E123KX	Ceramic, 0.012µF 25WV	
C122	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C133	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C145	YECUZ1A124KX	Ceramic, 0.12µF 10WV	
C201	YECUZ1E123KX	Ceramic, 0.012µF 25WV	
C203	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C204	YECUZ1C104KX	Ceramic, 0.1µF16WV	
C205	YECSW1A106MA	Tantalum, 10µF 10WV	
C206	F1H1A4740004	Ceramic, 0.47µF	
C208	YECUZ1C104KX	Ceramic, 0.1µF16WV	
C209	YECUZ1C104KX	Ceramic, 0.1µF16WV	
C210	YECSW1A106MA	Tantalum, 10µF 10WV	
C214	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C451	F1H1A4740004	Ceramic, 0.47µF	
C453	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C601	YECUS1C334KX	Ceramic, 0.33µF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C602	ECEV1CA470SP	Electrolytic, 47µF 16WV	
C603	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C605	YECUS1A105KX	Ceramic, 1µF 10WV	
C901	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C903	YECUZ1C333KX	Ceramic, 0.033µF 16WV	

1.4. Resistors

MAIN BLOCK [E-6722A]

Ref. No.	Part No.	Part Name & Description	Remarks
R103	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R104	ERJ8GEYJ101V	Chip, 100Ω 1/8W	
R107	ERJ6GEYJ912	Chip, 9.1kΩ 1/10W	
R108	ERJ6GEYJ563	Chip, 56kΩ 1/10W	
R109	ERJ6GEYJ752	Chip, 7.5kΩ 1/10W	
R111	ERJ6GEYJ153	Chip, 15kΩ 1/10W	
R121	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R131	ERJ8GEYJ392V	Chip, 3.9kΩ 1/8W	
R201	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R202	ERJ6GEYJ512	Chip, 5.1kΩ 1/10W	
R203	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R204	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R211	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R212	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R214	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R215	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R216	ERD25TJ563	Carbon, 56kΩ 1/4W	
R217	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R218	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R221	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R222	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R223	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R224	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R231	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R232	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R251	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R301	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R302	ERJ6GEYJ512	Chip, 5.1kΩ 1/10W	
R303	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R304	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R311	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R312	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R314	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R315	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R316	ERD25TJ563	Carbon, 56kΩ 1/4W	
R317	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R318	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R321	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R322	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R323	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R324	ERJ6GEYJ1R0	Chip, 1Ω 1/10W	
R331	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R332	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R451	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R452	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R453	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R455	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R456	ERJ8GEYJ4R7V	Chip, 4.7Ω 1/8W	
R457	ERJ8GEYJ4R7V	Chip, 4.7Ω 1/8W	
R458	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R459	ERJ8GEYJ101V	Chip, 100Ω 1/8W	
R460	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R474	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R475	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R477	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R480	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R481	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R482	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R483	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R484	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R485	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R486	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R487	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R488	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R489	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R490	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R491	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R492	ERJ6GEYJ223	Chip,22kΩ 1/10W	
R493	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R494	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R495	ERJ8GEYJ332V	Chip, 3.3kΩ 1/8W	
R496	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R497	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R498	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R499	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R502	ERDS2TJ473	Carbon, 47kΩ 1/4W	
R504	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R505	ERDS2TJ561	Carbon, 560Ω 1/4W	
R506	ERDS2TJ561	Carbon, 560Ω 1/4W	
R601	ERJ6GEYJ684	Chip, 680kΩ 1/10W	
R602	ERJ6GEYJ221	Chip, 220Ω 1/10W	
R603	ERD25TJ102	Carbon, 1kΩ 1/4W	
R605	ERD25TJ102	Carbon, 1kΩ 1/4W	
R609	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R610	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R611	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R613	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R614	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R615	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R616	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R617	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R618	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R619	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R620	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R621	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R622	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R623	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R624	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R625	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R626	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R627	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R628	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R629	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R630	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R631	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R632	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R633	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R634	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R635	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R638	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R639	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R640	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R641	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R642	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R643	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R644	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R645	ERDS2TJ561	Carbon, 560Ω 1/4W	
R646	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R647	ERD25TJ102	Carbon, 1kΩ 1/4W	
R648	ERD25TJ102	Carbon, 1kΩ 1/4W	
R649	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R650	ERD25TJ102	Carbon, 1kΩ 1/4W	
R652	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R653	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R654	ERJ8GEYJ222V	Chip, 2.2kΩ 1/8W	
R655	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R657	ERD25TJ104	Carbon, 100kΩ 1/4W	
R658	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R672	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R673	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R675	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R676	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R691	ERG1SJ101P	Metal Oxid, 100Ω 1W	
R692	ERG1SJ101P	Metal Oxid, 100Ω 1W	
R701	ERG1SJ151P	Metal Oxid, 150Ω 1W	

Ref. No.	Part No.	Part Name & Description	Remarks
R703	ERDS2TJ681	Carbon, 680Ω 1/4W	
R704	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R705	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R706	ERDS2TJ271	Carbon, 270Ω 1/4W	
R707	ERDS1FJ271	Carbon, 270Ω 1/2W	
R732	ERDS2TJ151	Carbon, 150Ω 1/4W	
R751	YER122P2702D	Metal Film, 27kΩ 1/10W	
R752	YER122R2703D	Metal Film, 270kΩ 1/10W	
R753	YER122P4302D	Metal Film, 43kΩ 1/10W	
R754	YER122P4701D	Metal Film, 4.7kΩ 1/10W	
R771	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R778	ERJ8GEYJ274V	Chip, 270kΩ 1/8W	
R779	ERJ8GEYJ274V	Chip, 270kΩ 1/8W	
R780	ERJ8GEYJ274V	Chip, 270kΩ 1/8W	
R781	ERJ8GEYJ274V	Chip, 270kΩ 1/8W	
R782	ERJ8GEYJ562V	Chip, 5.6kΩ 1/8W	
R783	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R784	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R786	ERG1SJ680P	Metal Oxid, 68Ω 1W	

SERVO BLOCK [E-8618]

Ref. No.	Part No.	Part Name & Description	Remarks
R101	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R102	ERJ14YJ330H	Chip, 33Ω 1/4W	
R103	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R104	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R105	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R106	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R107	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R108	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R109	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R110	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R111	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R112	ERJ3GEYJ393V	Chip, 39kΩ 1/16W	
R113	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R114	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R119	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R120	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R147	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R207	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R208	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R209	ERJ3GEYJ391V	Chip, 390Ω 1/16W	
R210	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R211	ERJ3GEYJ124V	Chip, 120kΩ 1/16W	
R213	ERJ3GEYJ470V	Chip, 47Ω 1/16W	
R214	ERJ3GEYJ272V	Chip, 2.7kΩ 1/16W	
R215	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R401	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R402	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R404	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R411	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R454	ERJ3GEYJ392V	Chip, 3.9kΩ 1/16W	
R455	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R456	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R461	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R463	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R466	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R471	ERJ3GEYJ121V	Chip, 120Ω 1/16W	
R473	ERJ3GEYJ121V	Chip, 120Ω 1/16W	
R481	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R601	ERJ3GEYJ123V	Chip, 12kΩ 1/16W	
R602	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R603	ERJ3GEYJ273V	Chip, 27kΩ 1/16W	
R604	ERJ3GEYJ124V	Chip, 120kΩ 1/16W	
R605	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R606	ERJ3GEYJ822V	Chip, 8.2kΩ 1/16W	
R607	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R608	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R609	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R610	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R613	ERJ3GEYJ122V	Chip, 1.2kΩ 1/16W	
R901	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R902	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R903	ERJ3GEYJ122V	Chip, 1.2kΩ 1/16W	

1.5. Connectors

MAIN BLOCK [E-6722A]

Ref. No.	Part No.	Part Name & Description	Remarks
CN501	YEAEK623214S	Connector, 14P	
CN771	YEAE012736A	Connector, 10P/6P	
CN772	YEAE012737A	Connector, 12P	
CN901	YEAETKCF06PV	Connector, 6P	
CN902	YEAETKCF06PV	Connector, 6P	

DISPLAY BLOCK [E-2708]

Ref. No.	Part No.	Part Name & Description	Remarks
CJ901	YEAETKCF06XY	Connector, 6P	
CJ902	YEAETKCF06XY	Connector, 6P	

SERVO BLOCK [E-8618]

Ref. No.	Part No.	Part Name & Description	Remarks
CN101	YEAESFW15R2E	Connector, 15P	
CN402	K1MN14B00028	Connector, 14P	
CN901	K1MN05B00010	Connector, 5P	
CN902	K1MN05B00009	Connector, 5P	

1.6. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW901	EVQ23504M	Push Switch	
SW902	EVQ23504M	Push Switch	
SW903	EVQ23504M	Push Switch	
SW904	EVQ23504M	Push Switch	
SW905	EVQ23504M	Push Switch	
SW906	EVQ23504M	Push Switch	
SW907	EVQ23504M	Push Switch	
SW908	EVQ23504M	Push Switch	
SW909	EVQ23504M	Push Switch	
SW2	ESE102MH2	Switch	
SW4	YEAS09275	Switch	

CRYSTALS

Ref. No.	Part No.	Part Name & Description	Remarks
XL451	YEXL49U007200	Crystal OSC	
XL471	YEXL49U0433T	Crystal OSC	
XL601	YEXL2RX0327	Crystal OSC	
XL602	YEXLCSA1258M	Crystal OSC	
XL451	YEXLSTCC419T	Crystal OSC	

CERAMIC FILTER

Ref. No.	Part No.	Part Name & Description	Remarks
XL201	H2D169500005	Ceramic Filter	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L51	YELT03N330JT	Coil	
L231	YETQ016F001	Coil	
L451	YELTBLM21A10	Coil	
L452	YELTBLM21B10	Coil	
L471	YELTBLM21B10	Coil	
L501	YELTBLM21A10	Coil	
L601	YELTBLM21A10	Coil	
L602	YELTBLM21A10	Coil	
L603	YELTBLM21A10	Coil	
L604	YELTBLM21A10	Coil	
LPF51	YEXC07T009	Coil	
R471	YELTBLM21A10	Coil	

LAMPS

Ref. No.	Part No.	Part Name & Description	Remarks
PL901	YEALHSIG009	Pilot Lamp	(1-A)
PL902	YEALHSIG009	Pilot Lamp	(2-A)
PL903	YEALHSIG009	Pilot Lamp	(2-A)

1.7. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
Z51	YEAL02007	Neon Lamp	(2-B)
AE1	K9ZZ00000039	Flat Cable, 14P	(2-B)
AJ1	YEAJ071284	Cord w/Plug	(3-A)
AJ2	YEAJ071285	Cord w/Plug	(2-B)
ANT1	YEAA10066	Antenna Receptacle	(2-B)
AP2	YEAP2711	Flexible Print Circuit	(2-B)
AT1	YEAT03346B	Terminal	(2-B)
AT2	YEAT05014	Terminal	(2-B)
1	YEFA031506	Upper Cover	(4-B)
2	YEFA05653	Bottom Cover	(1-B)
3	YEFA07443	Front Plate	(3-A)
4	YEFA09538	Side Plate (R)	(1-C)
5	YEFA09539	Side Plate (L)	(3-A)
6	YEFC025925	Escutcheon Ass'y	(1-A)
7	YEFF01951	Heat Sink	(2-C)
8	YEFX0213797	Bracket, GND	(2-B)
9	YEFX0213797	Bracket, GND	(2-B)
10	YEFX0213797	Bracket, GND	(2-C)
11	YEFX0213919	Bracket, GND	(1-B)
12	YEFX0214146	Bracket, IC	(2-C)
13	YEFX0214153	Bracket, ANT	(2-B)
14	YEFX0214581	Bracket	(2-C)
15	YEFX0214612	Bracket, Deck	(3-B)
16	YEFM03884A	Laser Seal	(3-B)
21	YEJT03009	Tapping Screw, 3mm * 8mm	(1-C)
22	YEJT03013	Tapping Screw, 3mm * 12mm	(3-C)
23	YEJT03015	Tapping Screw, 3mm * 6mm	(2-B)
24	YEJT03131	Tapping Screw, 2.6mm * 5mm	(2-A)
25	YEJT03141	Tapping Screw, 3mm * 8mm	(1-B)
26	YEJT03244	Tapping Screw, 2.8mm * 5mm	(2-A)
27	XSB26+6FX	Screw, 2.6mm * 6mm	(3-C)
28	XTB2+6GFX	Tapping Screw, 2mm * 6mm	(2-A)
29	XTB3+6FFX	Tapping Screw, 3mm * 6mm	(2-A)
30	XTB3+8FFX	Tapping Screw, 3mm * 8mm	(2-C)
31	XYN2+J4FX	Screw, 2mm * 4mm	(2-A)

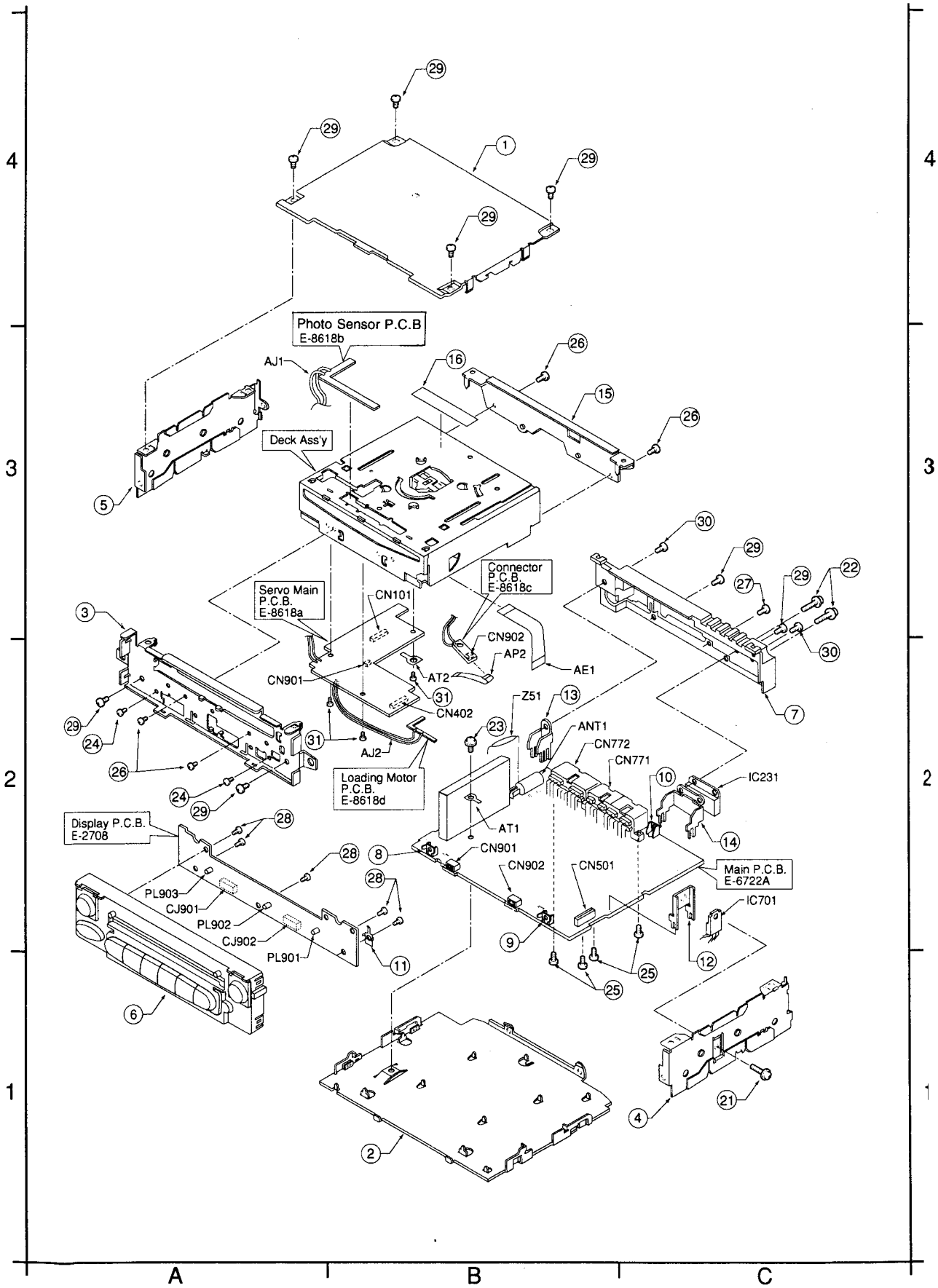
2 CD Player Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name &Description	Remarks
1	YGFA011781	Upper Chassis	(4-A)
2	YGFX236153	Disk Guide	(4-A)
3	YGFX0462017	Link Lever	(4-A)
4	YGFX0462018	Detection Lever (2)	(4-B)
5	YGFX0052357	Detection Lever (2) Spring	(4-B)
6	YEJT03131	Tapping Screw, 2.6 mm* 5mm	(2-C) (2-B)
7	YGFX249461	Clamp Arm	(3-A)
8	YGFX007640	Clamper	(3-A)
9	YGFX0052363	Clamper Spring Plate	(3-A)
10	YEFX999957	Ball Bearing	(3-A)
11	YGFX0462013	Detection Lever (1)	(3-A)
12	YGFX0052352	Detection Lever (1) Spring	(3-A)
13	YGFA011795	Suspension Chassis Ass'y	(3-A)
14	YEP0FX3100	Optical Pick-up Ass'y	(3-B)
15	YEFW04150	Feed Screw Housing A	(2-B)
16	YEFW04137A	Feed Screw Housing B	(2-B)
17	YGFX0052386	Thrust Adjusting Spring	(2-B)
18	YEFX236144B	Traverse Guide	(3-A)
19	YGFX9992027	Feed Screw Carrier	(3-B)
20	YEFX9991458A	FPC Holder	(2-A)
21	YGJT03211	Traverse Gear Ass'y	(2-B)
22	YEJS02037	Screw, (Pick-up)	(3-A) (3-B)
23	XYN2+C5FX	Screw, (FPC) 2mm * 5mm	(2-A)
24	XYN2+J10FX	Screw, (Housing) 2mm * 10m	(2-B)
25	YEFX0051590	Spring Washer	(3-A)
26	XUC15V	Retaining Ring, 1.5mm	(3-A)
27	YEFX9991806A	Sealed Plate	(3-B)
28	YGP0FX3503	Traverse Motor Ass'y	(2-B)
29	YEAS23151A	Inner Switch	(2-B)
30	YEFR03080	Rubber Belt	(2-B)
31	YEFX026124A	Idler Pulley	(2-B)
32	YGFX018611	Motor Bracket Ass'y	(2-B)
33	YEJS02018FZ	Screw, (SW)	(2-B)
34	XQN2+A25FX	Screw, 2mm * 25mm	(2-B)
35	YGP0FX3529	Spindle Motor Ass'y	(2-A)
36	YEFX0051991C	Spring (Motor)	(2-A)
37	YGFX0052353	Clamper Spring	(2-A)
38	YGAJ071286	Motor Cable	(2-A)
39	XQN17+A25FX	Screw, 1.7mm * 25mm	(3-A)
40	YGFX0462019	Feeder Arm Ass'y	(1-A)
41	YGP0FX3507	Roller Gear Ass'y	(2-B)
42	YEFW04144	Roller Shaft Collar (1)	(2-A)
43	YEFW04138	Roller Shaft Collar (2)	(2-A)
44	YEFX218282	Rubber Roller	(2-A)
45	YEJW04128	Washer	(2-A)
46	YGFX0052362	Spring (Feeder Arm)	(1-A)
47	YGFX0462015	Suspension Lock Plate (L)	(1-A)
48	YGP0FX3504	Suspension Lock Plate (R) Ass'y	(1-B)
49	YGFX0052355	Spring (Rack Gear)	(1-A)
50	YGFX0052356	Spring (Rack Lock Lever)	(1-B)
51	YGFX0052360	Spring (Suspension Lock Plate L)	(1-A)
52	YGFX0052361	Spring (Lock Plate)	(3-C)
53	YGFA011779	Bottom Chassis Ass'y	(3-C)
54	YGFX003940	Driving Gear (1)	(3-C)
55	YGFX003941	Driving Gear (2)	(3-C)
56	YGP0FX3506	Loding Motor Ass'y	(3-C)
57	YGFX018605	Loding Motor Bracket Ass'y	(3-C)
58	XQN2+A25FX	Screw, (Motor) 2mm * 25mm	(3-C)
59	YEJS06188	Screw	(2-C)
60	YEFS04693	Oil Dumper	(1-C)
61	YGFX0052358	Suspension Spring (A)	(2-C)
62	YGFX0052359	Suspension Spring (B)	(2-C)

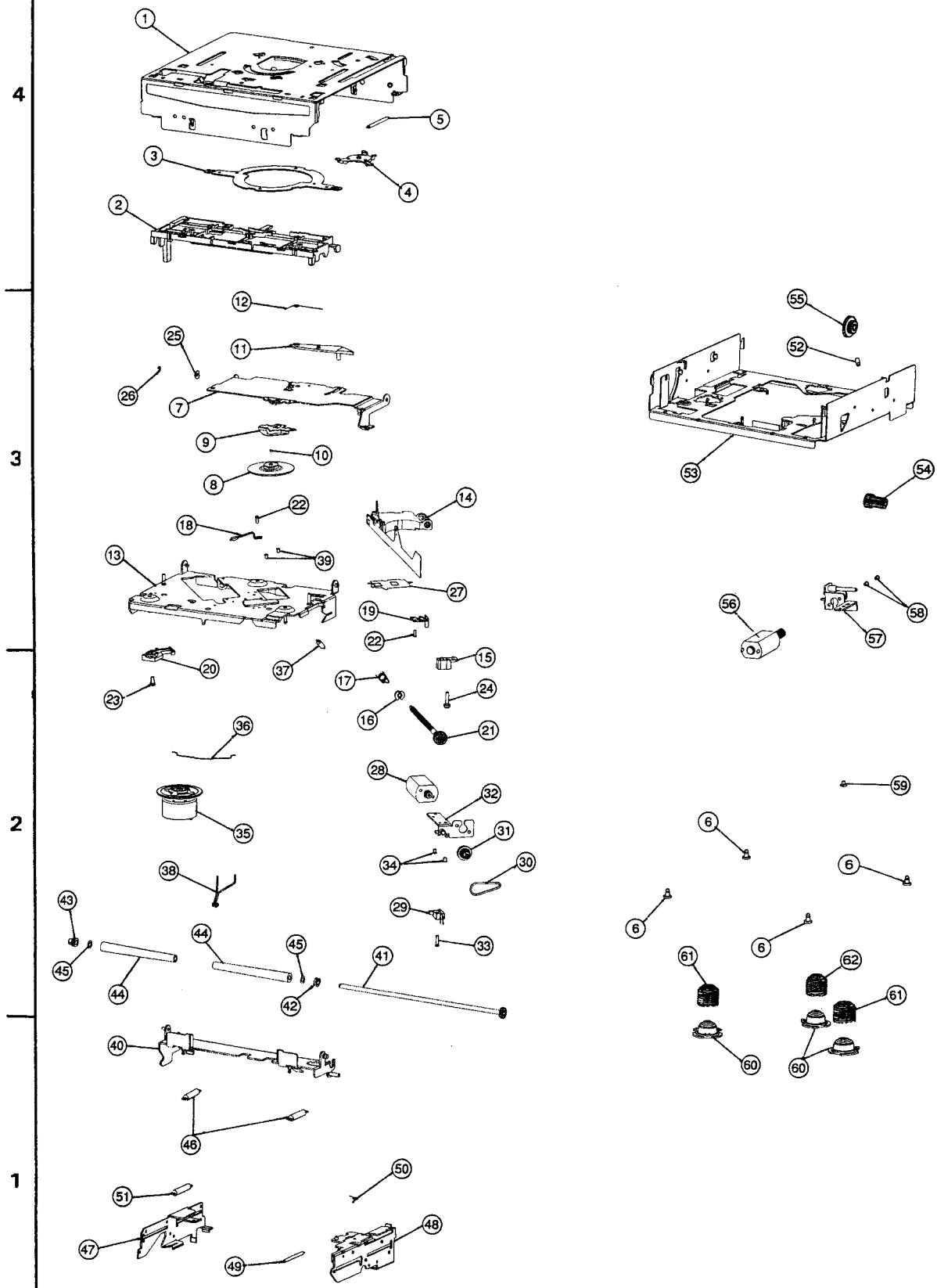
EXPLODED VIEW (Unit)

■ Numbers in ○ are indicated REF.No.in the REPLACEMENT PARTS LIST



EXPLODED VIEW (CD Deck)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



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PARTS AVAILABILITY

HOW TO ORDER REPLACEMENT PARTS

Replacement parts can be ordered from either a Parts Depot or directly from Toyota Motor Corporation. When ordering, please refer to the Replacement Parts List in this service manual to insure that you receive the correct part.
Please enter not only part number(s) but also unit number of TOYOTA car radio/car stereo in a REMARKS column of the order sheet.

DISPONIBILIDAD DE PARTES DE REPUESTO

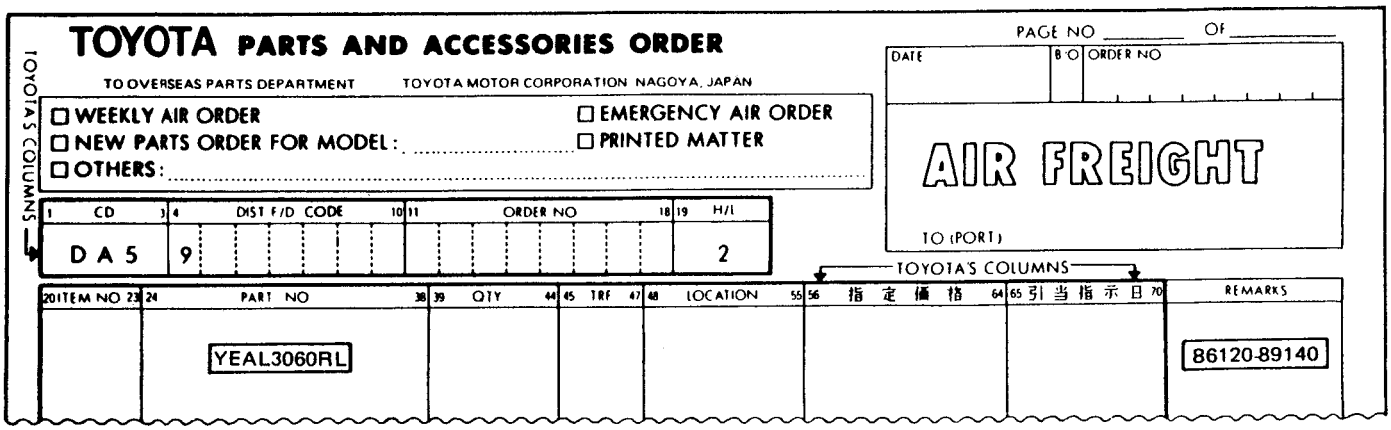
METODO DE HACER PEDIDOS DE PARTES DE REPUESTO

Partes de repuesto pueden pedirse tanto a un Depósito de Partes de Repuesto (Parts Depot) como directamente a la Toyota Motor Corporation. En hacer los pedidos, refiérase a la Lista de Partes de Repuesto que se encuentra en este manual de servicio a fin de asegurarse de su recibo de las partes correctas.
Favor llenar la columna OBSERVACIONES de la hoja de pedido no solamente con el (los) número(s) de part(s) sino también con el número de la unidad de radio/estéreo de carro, TOYOTA.

DISPONIBILITE DE PIECES

MOYEN DE COMMANDER DES PIECES DE RECHANGE.

Les pièces de rechange seront commandées au Depôt de Pièces (Parts Depot) ou directement à Toyota Motor Corporation. Lors d'une commande, veuillez consulter le Liste de pièces de rechange dans ce manuel d'atelier pour être sûr que vous recevez la pièce exacte. Veuillez écrire non seulement le(s) numéro(s) de pièce mais aussi le numéro d'unité de TOYOTA auto-radio/auto-stéréo dans la colonne REMARQUES du bulletin de commande.


TOYOTA PARTS AND ACCESSORIES ORDER
TO OVERSEAS PARTS DEPARTMENT TOYOTA MOTOR CORPORATION NAGOYA, JAPAN
PAGE NO OF
DATE
B/O
ORDER NO
☐ WEEKLY AIR ORDER
☐ NEW PARTS ORDER FOR MODEL:
☐ OTHERS:
☐ EMERGENCY AIR ORDER
☐ PRINTED MATTER
AIR FREIGHT
TO (PORT)
TOYOTA'S COLUMNS
1 CD 3 4 DIST F/D CODE 10 11 ORDER NO 18 19 H/L
D A 5
9
2
TOYOTA'S COLUMNS
201TEM NO 23 24 PART NO 38 39 QTY 44 45 TRF 47 48 LOCATION 55 56 指 定 価 格 64 65 引 当 指 示 日 70 REMARKS
YEAL3060RL
86120-89140

U.S.A — PANASONIC PARTS DEPOT

EASTERN REGIONAL PARTS DEPOT
1225 NORTHBROOK PARKWAY SUITE 2-400
SUWANEE, GA 30174
PHONE : (404) 388-6800

WESTERN REGIONAL PARTS DEPOT
20421 84TH AVE. SOUTH
KENT, WA 98032
PHONE : (206)-395-7343

CANADA — PANASONIC PARTS DEPOT

TRONTO
PANASONIC CANADA INC.
5770 AMBLER DRIVE, MISSISSAUGA, ONTARIO L4W 2T3
PHONE : (905)-624-5010

EUROPE — PANASONIC PARTS DEPOT

HAMBURG
PANASONIC SERVICE DEUTSCHLAND G.M.B.H.
2000 HAMBURG 28 AUSSCHLAGER BILLDEICH 32 F.R. GERMANY
PHONE : (040)-789511

SCANDINAVIA — PANASONIC PARTS DEPOT

STOCKHOLM
PANASONIC SERVICE SCANDINAVIAN A.B.
INSTRUMENTVAGEN 29-31, BOX 43047,
100 72 STOCKHOLM, SWEDEN
PHONE : 08-190180

AUSTRALIA — PANASONIC PARTS DEPOT

SYDNEY
PANASONIC AUSTRALIA PTY, LTD
1 GARIGAL ROAD, BELROSE, N.S.W. 2085
PHONE : (02)-986-7640

MELBOURNE
PANASONIC AUSTRALIA PTY, LTD
1 CARIBBEAN DRIVE, SCORESBY VIC. 3179
PHONE : (03)-213-8888

ADELAIDE
PANASONIC AUSTRALIA PTY, LTD
125 PORT ROAD, HINDMARSH S.A. 5007
PHONE : (08)-346-3999

BRISBANE
PANASONIC AUSTRALIA PTY, LTD
494 NUDGEE ROAD, HENDRA QUEENSLAND. 4012
PHONE : (07)-268-6455

PERTH
PANASONIC AUSTRALIA PTY, LTD
37 KEWDALE ROAD, WELSHPOOL, W.A. 6106
PHONE : (09)-451-7211

OTHER COUNTRIES

Please order from the Overseas Parts Department, Toyota Motor Corporation, using the normal Parts & Accessories Order From for ordering Automobile parts.

OTROS PAISES

Favor hacer pedidos al Departamento de Partes al Ultramar (Overseas Parts Department), Toyota Motor Corporation utilizando el formulario normal de pedido de partes y accesorios que se usa para pedir las partes de repuestos de automóviles.

AUTRES PAYS

Veuillez commandes au département de Pièces d'outre-mer (Overseas Parts Department), Toyota Motor Corporation, en vous servant du Bulletin de Commande de Pièces & Accessoires pour des commandes de pièces d'automobile.

TOYOTA MOTOR CORPORATION

OVERSEAS SERVICE DIVISION

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